

Meeting Minutes Transmittal/Approval
Tri-Party Agreement Milestone Review Meeting
EPA Conference Room
May 27, 1997

From/ Appvl.: Charles A. Hansen, RL Date: 8-26-97
IAMIT Representative

Appvl.: Michael Wilson, Ecology Date: 8/26/97
IAMIT Representative

Appvl.: Douglas R. Sherwood Date: 8/26/97
Doug Sherwood, EPA
IAMIT Representative

Prepared by: Mary Ann McLaughlin Date: 8/22/97
Appvl.: Mary Ann McLaughlin
Fluor Daniel Hanford, Inc.

Distribution

Arnold, L. D.	FDH	G3-27	McLaughlin, M. A.	FDH	G3-27
Bauer, L. K.	RL	H0-12	Mecca, J. E.	RL	R3-79
Bengtson, P. J.	OOE		Miera, F. R.	RL	A5-15
Donnelly, J.	Ecology	B5-18	Morrison, R. D.	FDH	G3-27*
Donahoe, R.	BHI	X9-06	Pak, P. M.	RL	H0-12
Dronen, V.	BHI	H0-09	Poet, T	EPA	B5-01
Evans, D. T.	RL	R3-79	Rayner, J	BHI	H0-11
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Furman, M. J.	RL	H0-12	Reynolds, E.	FDH	N1-26
Gonzalez, R.	RL	R3-79	Robertson, J.	BWHC	T5-54
Hajner, R. S.	BHI	H0-11	Robertson, O.	RL	H0-12
Hansen, C. A.	RL	S7-41*	Romine, L.	RL	R3-79
Henckel, G. C.	BHI	H0-09	Sanders, G. H.	RL	A5-15*
Holten, R.	RL	H0-12	Selby, M. A.	Ecology	B5-18*
Hopkins, A.	FDH	N1-26*	Sherwood, D.	EPA	B5-01*
Hughes, M. C.	BHI	H0-13	Skinnarland, R.	Ecology	B5-18*
Jaraysi, M.	Ecology	B5-18	Trumble, H. R.	RL	H0-12
Julian, R. J.	Ecology	B5-18	Werdel, N.	RL	H0-12
Liedle, S. D.	BHI	H0-09	Wilson, M. A.	Ecology	B5-18
Logan, T	BHI	X5-54	Wooley, T	Ecology	B5-18
Ma, F.	Ecology	B5-18	EDMC		H6-08

* W/Attachments

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TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
MAY 27, 1997

1. The minutes of the April 22, 1997 Milestone Review were signed by Messrs. Hansen, Wilson and Sherwood.
2. Rich Holten, RL, presented an overview of the status of Milestones M-13-00, M-15-00 and M-16-00. Details of the presentation are included as Attachment 1. Specific items of discussion included the following: Change requests are planned for DR-1, where the plume has extended farther than originally believed, and B/C-1, where the volume is higher than planned. The potential pesticide site on the North Slope is being characterized. Currently, the characterization and the remediation efforts have sufficient funding to start. The Corrective Measures Study ROD will be out for review in about a month.

Followup to the PRF/PFP incident is being done by Bechtel Hanford for all the facilities in their control. It is not feasible to inspect every tank because of the large number of tanks and their inaccessibility.

The chromium exposure study has been approved for the salmon smolt. Current data are inconclusive.

Full funding has been made available for Fiscal Year (FY) 1997. N will be behind schedule at the end of the year. There will be a review of the Multi-Year Program Plan at the WPPSS auditorium on June 3, 1997.

The process is being started to expand the ERDF. It is anticipated that two cells will be filled by the end of FY 1999. Dirt is being moved at the planned rate, but total volumes will be greater due to the expanded scope of work. Doug Sherwood, EPA, commented that this work generates the most uncertain volumes on site. Additional impacts discussed include that asbestos is being found in all D-pipelines; and there may be some LDR issues. Expansion of the ERDF will be on the HAB agenda. Vern Dronen, BHI, is writing a brief summary paper to be used in informing the HAB.

3. Marv Furman, RL, discussed the well abandonment strategy as detailed in Attachment 4. The number of Priority 1 wells is less than 2% of the 2200 total. Priority 2 wells are less than 17% of the total and Priorities 3, 4 and 5 make up the remainder at about 80%. There is \$2 million in the FY 1997 budget for this work. There was a discussion on projected costs. W15-5 cost approximately \$140k due to special sampling requirements. The others are expected to cost \$5 - 70k per well. Cost data are currently being developed.
4. A Milestone Review Form (Attachment 5) was distributed for Milestone M-24-00, since there were no significant issues or actions for this milestone.

5. PUREX Facility M-80 Milestones were discussed (Attachment 6). All PUREX Transition end points were completed by May 9, 1997, and the facility is currently in S&M status. Final turnover to BHI is planned for October 1997.
6. Dave Evans, RL, presented status on B-Plant, Milestone M-82-00 (Attachment 7). Of 400 endpoint criteria for FY 1997, 180 are complete. There are approximately 1200 scheduled for FY 1998. There has been discussion with Ecology on the Sampling and Analysis Plan. Ecology has not yet approved the endpoint document (Milestones M-82-02 and M-82-03). Ted Wooley, Ecology, is actively reviewing the documents to keep on schedule. The budget is on track for the end of the fiscal year. Doug Sherwood, EPA, asked to obtain the cost profile developed for the mid-year review. (This was forwarded later by Rick Gonzalez, RL, and is included as Attachment 8 to these minutes.)
7. Plutonium Finishing Plant Transition Milestone M-83-00 negotiation status was discussed by Rick Gonzalez, RL (Attachment 9). Accomplishments, issues and actions are also outlined in Attachment 9. Jim Mecca, RL, discussed the self-imposed restriction on movement of fissile materials at PFP. This was a conduct of operations issue that is being resolved with the contractor.
8. 324 Facility M-89 Milestones are addressed in detail in Attachment 10. There was a reliability issue with laser cutting, so mechanical cutting was resumed, although laser cutting will continue to be pursued. An issue paper was prepared on B-cell special case waste. FY 1997 work is behind schedule but is in line with the budget variance.
9. M-92 Milestones for Cesium/Strontium, Bulk Sodium and Special Case Waste disposition were discussed by RL Facility Transition. The Cs/Sr Project Management Plan (M-92-02) is on schedule for submittal by September 30, 1997. This plan will address the long range management of Cs/Sr for the site. No commercial use for the Cs/Sr capsules has yet been identified, so the Part A permit modification is being pursued. Ecology asked whether any of the special case waste milestones were in jeopardy and RL responded that they are not. Ecology also asked RL to identify the contractor organizations which are responsible for carrying out the M-92 milestones. Currently, Babcock & Wilcox Hanford Company (BWHC) is responsible for all 300 Area waste. George Sanders, RL, will provide additional information to Ecology at the next M-92 milestone review.

AGENDA
TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
(CHAIRPERSON: C. A. HANSEN)

TUESDAY, MAY 27, 1997

712 Swift Blvd., Suite 5, EPA Conference Room

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>CONTRACTOR MANAGER</u>	<u>PRESENTER</u>
9:00 am	M-13-00	Complete RI/FS Submittals	R. A. Holten	T. M. Wintczak	R. A. Holten
	M-15-00	RI/FS Process Completion	R. A. Holten	T. M. Wintczak	R. A. Holten
	M-16-00	Complete Remedial Actions	R. A. Holten	T. M. Wintczak	R. A. Holten
		Disposition of Surplus Reactors	R. A. Holten	T. M. Wintczak	R. A. Holten
		Special Subjects Status	R. A. Holten	T. M. Wintczak	R. A. Holten
	M-24-00	RCRA Well Installation (No presentation- M/S Review form approved and submitted)	R. A. Holten	T. M. Wintczak	R. A. Holten
10:30 am	M-80-00	Purex/UO3 Facility Transition	J. E. Mecca	R. W. Bailey (BWHC) L. J. Olguin (FDH)	R. X. Gonzalez
	M-82-00	B-Plant Transition	J. E. Mecca	R. E. Heineman (BWHC) L. J. Olguin (FDH)	D. T. Evans
	M-83-00	PFP Facility Transition	J. E. Mecca	E. C. Vogt (BWHC) L. J. Olguin (FDH)	R. X. Gonzalez
	M-89-00	324 Bldg. Closure of MW Units	J. E. Mecca	G. O. Hayner (BWHC) L. J. Olguin (FDH)	R. X. Gonzalez
	M-92-00	Facilities for Cesium/Strontium, Sodium and Special Case Waste	J. E. Mecca	D. B. Cartmell (BWHC) L. J. Olguin (FDH)	R. X. Gonzalez
	M-81-00	FFTF Facility Transition (MOVED TO IAMIT MEETING)	E. J. Hughes	E. F. Loika (BWHC) D. B. Kles (FDH)	O. A. Farabee

ATTENDEES

TPA MILESTONE REVIEW

DATE: 5-27-97

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>(✓) FOR ATTACHMENTS</u>
<u>Rich Holten</u>	<u>DOE</u>		
<u>Melodie Selby</u>	<u>Ecology</u>	<u>B5-18</u>	<u>✓</u>
<u>Linda K. Bauer</u>	<u>DOE</u>	<u>H0-12</u>	
<u>MIKE WILSON</u>	<u>ECOL AM</u>		
<u>Steve Hedke</u>	<u>BHI</u>		
<u>R. SCOTT HAJNEL</u>	<u>BHI</u>		
<u>Mike C. Hughes</u>	<u>BHI</u>	<u>H0-13</u>	
<u>FELIX R. MIERA</u>	<u>RL/EAP</u>	<u>A5-15</u>	
<u>CA/Hanson</u>	<u>DOE RL</u>	<u>S7-41</u>	<u>✓</u>
<u>G. H. Sanders</u>	<u>DOE-RL</u>	<u>A5-15</u>	<u>✓</u>
<u>M. R. McLaughlin</u>	<u>FDH/TPAI</u>		
<u>Doug Sherwood</u>	<u>EPA</u>	<u>B5-01</u>	<u>✓</u>
<u>Lang Council</u>	<u>FDHI/TPAI</u>	<u>G3-27</u>	
<u>Paul Park</u>	<u>DOE-RL</u>		

ATTENDEES

TPA MILESTONE REVIEW

DATE: 5-27-97

NAME	ORGANIZATION	MAILSTOP	(✓) FOR ATTACHMENTS
<u>John Ryner</u>	<u>BHI</u>	<u>H-011</u>	
<u>Peter Bengtson</u>	<u>Oregon office of Energy</u>		✓
<u>Jack Donnelly</u>	<u>Ecology</u>	<u>B5-18</u>	
<u>Tom Post</u>	<u>EPA</u>	<u>B5-01</u>	
<u>Tom Logan</u>	<u>BHI</u>		
<u>Queen Robertson</u>	<u>DOE-ER</u>		
<u>Vern DRONEN</u>	<u>BHI</u>		
<u>Heather Trumble</u>	<u>DDE-RL</u>	<u>H0-12</u>	
<u>Nancy Werdel</u>	<u>DOE-RL</u>	<u>H0-12</u>	
<u>Rich Trumble</u>	<u>BHI</u>		
<u>M.J. Furman</u>	<u>DLE</u>		
<u>B.H. Ford</u>	<u>BHI BHI</u>		
<u>George C. Hawker III</u>	<u>BHI</u>		

ATTENDEES

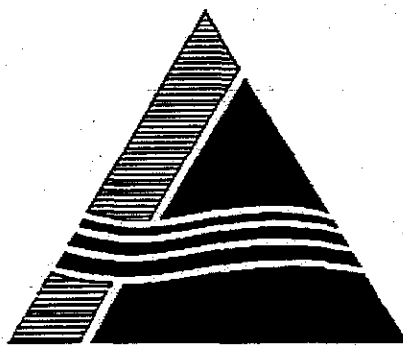
TPA MILESTONE REVIEW

DATE: 5-27-97

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>(✓) FOR ATTACHMENTS</u>
<u>Bob Julian</u>	<u>Ecology</u>	<u>B5-18</u>	
<u>Ron Skinnarland</u>	<u>Ecology</u>	<u>B5-18</u>	<u>+</u>
<u>Fenggang Ma</u>	<u>Ecology</u>	<u>B5-18</u>	
<u>Ted Wesley</u>	<u>Ecology</u>	<u>B5-18</u>	
<u>Moss Jarayzi</u>	<u>Ecology</u>	<u>B5-18</u>	
<u>Larry Romine</u>	<u>RL-TPD</u>	<u>R3-79</u>	
<u>JAMES E. MECCA</u>	<u>RL-TPD</u>	<u>R3-79</u>	
<u>DAVID T. EVANS</u>	<u>RL-TPD</u>	<u>R3-79</u>	
<u>RICHARD GONZALEZ</u>	<u>RL-TPD</u>	<u>R3-79</u>	
<u>Julie Robertson</u>	<u>BWHC/PFP</u>	<u>TS-54</u>	
<u>ERICK REYNOLOS</u>	<u>FDH/PD/FS</u>	<u>NI-26</u>	
<u>ANDREA HOKANS</u>	<u>FDH/PD/FS</u>		<u>✓</u>
<u>George Reddick</u>	<u>FDH</u>	<u>NI-26</u>	

Richland Environmental Restoration Project

TPA Quarterly Review



Tri-Party Agreement

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

May 27, 1997

Tri-Party Agreement Quarterly Review
Environmental Restoration (Milestones: M-13, M-15, M-16, M-20, M-24, M-93)

A G E N D A

May 27, 1997 (9:00 a.m. to 10:30 a.m.)

<u>Topics</u>	<u>Discussion Leader</u>	<u>Time</u>
Program Assessment & TPA Milestone Overview	Rich Holten	9:00 AM

Progress / Lookahead

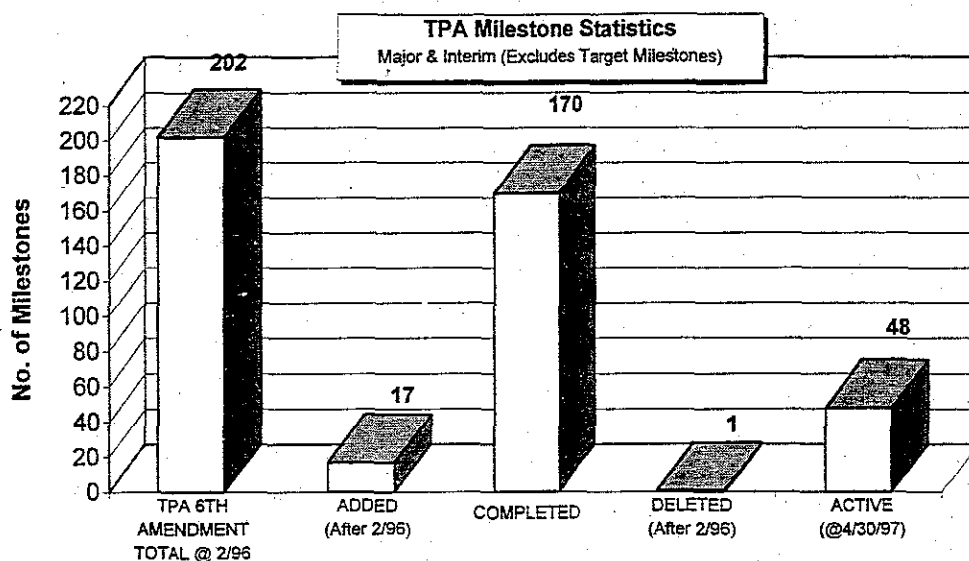
- 2nd Qtr Accomplishments
- 120-Day Milestone Lookahead
- Significant Issues
- Cost & Schedule Performance & Variances (*By Exception*)

Special Topics 9:30 AM

1 N Basin Schedule	Paul Pak/ Heather Trumble	9:30 20 Min.
2 100 Area Remediation Status	Owen Robertson/ Vern Dronen	9:50 25 Min.
3 Well Abandament	Mike Thompson/ Marv Furman	10:15 15 Min.

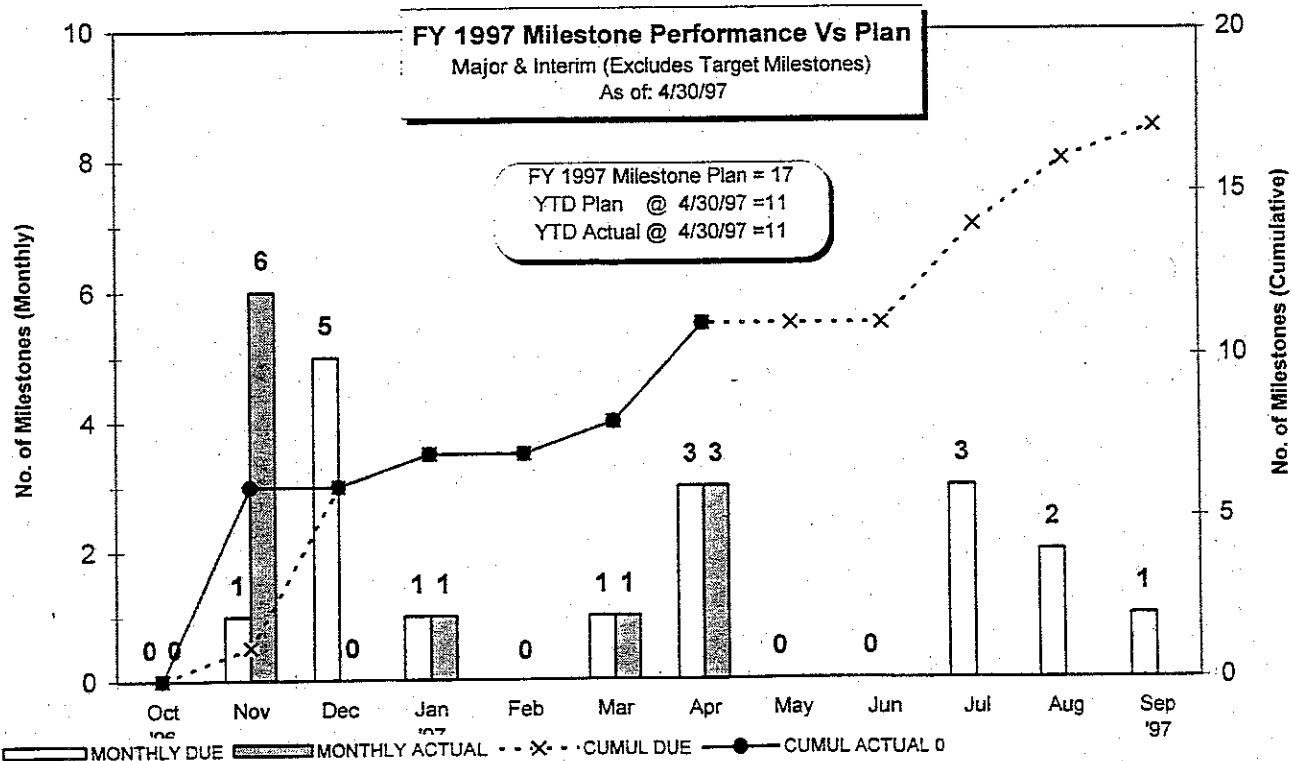
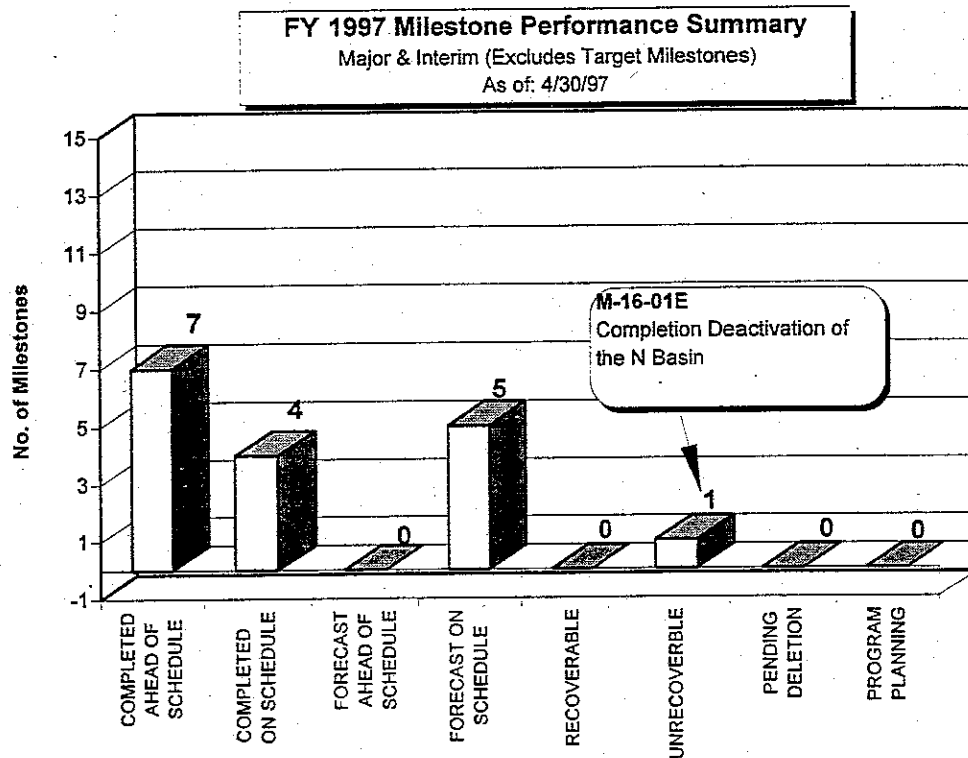
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and Facility S&M, RCRA Closures, RARA)	
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TPA Milestone Statistics Major & Interim (Excludes Target Milestones)						
	Completion Date	Total @2/96	Added After 2/96	Completed @ 4/30/97	Deleted After 2/96	Active @ 4/30/97
M-13-00 Submit Workplans for RFI/CMS or RI/FS Studies	6/30/06 (M-13-00Q)	34	0	20	0	14
M-15-00 Site Investigations / Feasibility Studies	12/31/08 (M-15-00C)	84	2	79	0	7
M-16-00 Remedial Design / Remedial Action	9/30/18 (M-16-00)	20	15	16	1	18
M-20-00 Submit Closure Plans for All RCRA TSD Units	2/28/00 (M-20-00)	13	0	7	0	6
M-24-00 RCRA Groundwater Monitoring	12/31/99 (M-24-00K)	48	0	45	0	3
M-70-00 ERDF Operational	7/01/96A (M-70-00)	3	0	3	0	0
TOTAL		202	17	170	1	48
*M-93-00 Reactors	TBD (M-93-00)	0	14	0	0	14

*Proposed TPA milestones not included in above totals.



FY 1997 TPA Milestone Summary
(Excludes Target Milestones)

Item	FY96 Month	Milestone	Description	Due Date	Forecast Actual Date	Completed		Forecast Ahead Schedule	Forecast On Schedule	Recoverable	UnRecoverable	Pending Deletion	Program Planning
						Ahead Schedule	On Schedule						
1	Nov-96	M-15-12C	Submit 100-NR-1/NR-2 CMS to Ecology. The 100 NR-1/NR-2 CMS will address 100-N Area ground water and high and low priority waste sites	11/30/96	11/24/96A	X							
2	Dec-96	M-15-15E	Issue final draft 200-UP-2 for LFI	12/31/96	11/28/95A	X							
3		M-13-00J	Submit planning documentation necessary to complete the RI/FS process for 100-IU-2/100-IU-6	12/31/96	3/05/96A	X							
4		M-16-07A	Initiate Remedial Action for the 100-DR-1 OU	12/31/96	11/25/96A	X							
5		M-24-00H	Install RCRA Groundwater Monitoring Wells at the rate of 0 to 50 in CY 1996 (If Required)	12/31/96	11/14/96A	X							
6		M-24-35	Install One (1) additional RCRA Well at 216-A-136-1	12/31/96	11/14/96A	X							
	Jan-97	M-16-06A	Submit the 100-HR-3/100-KR-4 Performance monitoring plan, Draft A as a primary document	1/31/97	1/25/97F		X						
8	Mar-97	M-15-12B	Submit Closure Plan/CMS for 1301-N/1325-N, 1324-N and 1324-NA Crib. CMS to include Closure/Post Closure IRM Proposed Plan, RCRA Permit Mod and work schedules for the Crib.	3/31/97	3/05/97A	X							
9	Apr-97	M-15-80	Submit a draft interim report for the Columbia River Comprehensive Impact Assessment (CRCIA)	4/30/97	4/29/97A		X						
10		M-15-80A	RL is to provide a list of comprehensive work scope tasks to develop and prioritize in coordination with CRCIA team (not based on funding)	4/30/97	4/29/97A		X						
11		M-16-01A	Submit Draft 100-N Area Ancillary Facility Decommissioning EE/CA to Ecology.	4/30/97	4/29/97A		X						
12	Jul-97	M-16-06B	Begin systems operation of 100-HR-3 OU	7/1/97	7/01/97F				X				
13		M-15-36	Restart the 200-ZP-2 Vapor Extraction System (VES)	7/31/97	7/31/97F				X				
14		M-15-80B	RL is to provide a recommendation for follow-on work to M-15-80, primarily based on M-15-80A	7/31/97	7/31/97F				X				
15	Aug-97	M-16-04B	Complete the 300 - 500 gpm system upgrade (Phase III) for 200-ZP-1 OU	8/31/97	8/31/97F				X				
16		M-16-03B	Initiate Remedial Action for 300-FF-1 OU	8/31/97	8/31/97F				X				
17	Sep-97	M-16-01E	Complete N Reactor/100-N Area Deactivation pursuant to the work scope identified in the N Reactor Deactivation Plan, Rev. 4, WIIC-SP-0615, Dec. 1993	9/30/97	2/28/98F						X		
FY 1997 Total TPA Milestones						7	4	0	5	0	1	0	0

***This Quarter's TPA Change Requests
(January - April 1997)***

**M-15-97-01
200-ZP-2 OU**

Change Request M-15-97-01 delays the restart of the VES System of 200-ZP-2 OU of TPA milestone **M-15-36** from: 4/30/97, to: 7/31/97

**M-16-97-02
300-FF-1**

This change request establishes three Interim TP A milestones for remedial action and disposal of waste in the 300-FF-1 OU. This action is required by the ROD for the 300-FF-1 OU.

M-16-03B Initiate Remedial Action, 300-FF-1 OU
due date **August 31, 1997**

M-16-03C Submit to EPA/Ecology the 618-4 Burial Ground
excavation report as a final BHI document
due date **August 31, 1998**

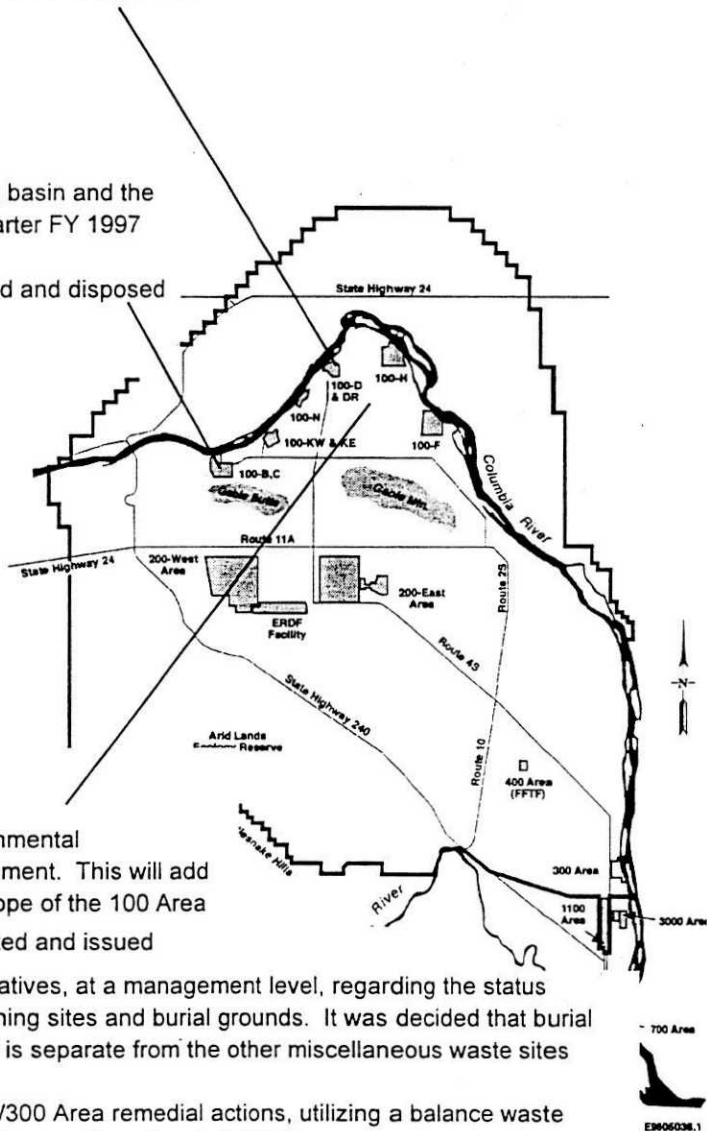
M-16-03D Complete Remediation of the waste sites in the
300-FF-1 OU as defined in the Remedial Design
Report/Remedial Action Work Plan for the
300-FF-1 OU (DOE-RL -96-70)
due date **May 31, 1999**

DR-1

- 24,446 tons of waste has been excavated for the 2nd Qtr from the 116-DR-1/2 liquid waste trenches. The original, known volume of contaminated soil was completed ahead of schedule on March 13, 1997.
- Completed excavation of 5,696 tons from 107-D-1 and 107-D-2 sludge disposal trenches
- 33,712 tons were excavated and shipped in FY 1997 to date

B/C - 1

- 57,195 tons of waste were excavated from the 116-B-4 storage pile, 116-C-5 retention basin and the process effluent pipelines for the 2nd Quarter FY 1997
- 113,530 tons of material have been removed and disposed in FY 1997 to date



100 Area Common

- ERC assisted RL in finalizing of the Environmental Protection Agency (EPA) draft ROD amendment. This will add 34 liquid disposal sites and expand the scope of the 100 Area
- The ERC revegetation manual was completed and issued
- Presentations were made to TPA representatives, at a management level, regarding the status and proposed steps for the 100 Area remaining sites and burial grounds. It was decided that burial grounds should proceed on a schedule that is separate from the other miscellaneous waste sites
- Prepared an integrated schedule for all 100/300 Area remedial actions, utilizing a balance waste transportation plan and incorporating 100-N waste sites ahead of 100-K

Technologies/Innovations and Cost Savings:

- The PNNL technology developers received a letter from the ERC concerning the delay in implementing the demonstration at 618-4 burial ground site. Plans are being made for the new demo date in July 1997. The low frequency ground-penetrating radar system is complete and has been tested at a PNNL buried object test site in the 300 Area. The system was used to collect 400 MHz and 200 MHz of data. Holographic reconstruction of the data was successful and has generated images of simulated buried waste targets

200 Area

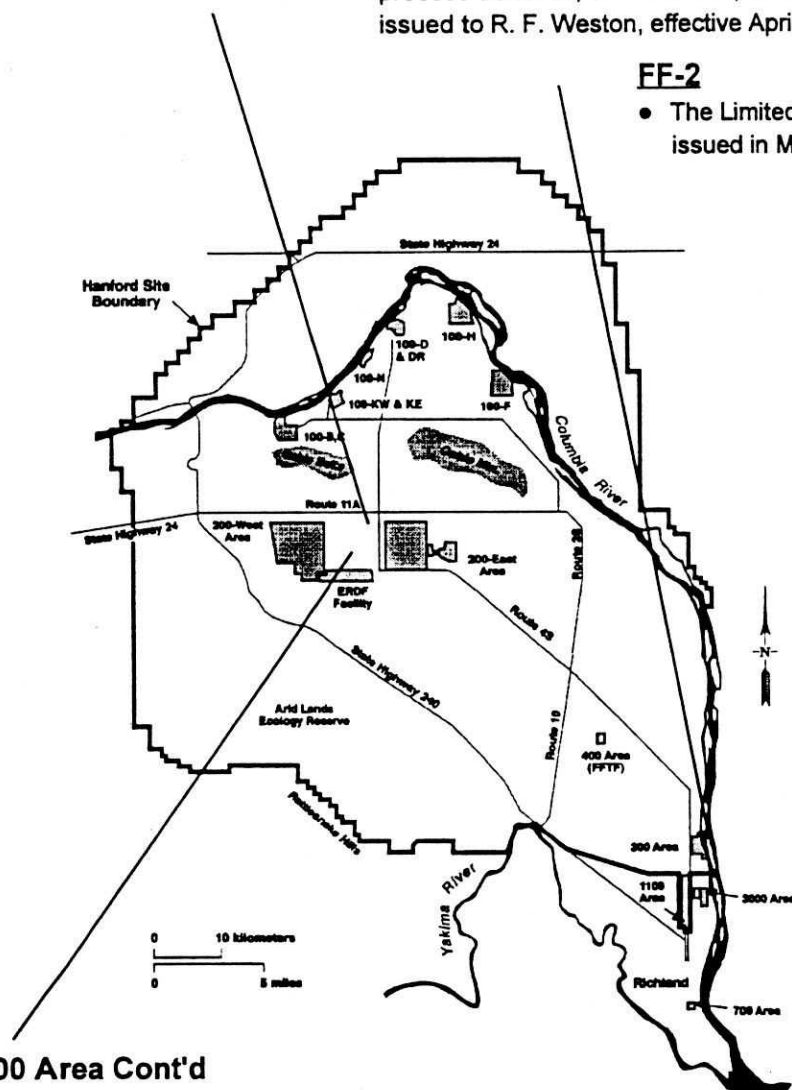
- The **Waste Site Grouping for the 200 Areas Soil Investigation Report** was issued as Rev. 0, in January

300 Area**FF-1**

- An independent registered professional engineer to certify closure of the 300 Area process trenches was awarded to **Los Alamos Technical Association** on March 10, 1997
- A subcontract was awarded to **Roy F. Weston, Inc.**, for excavating the process trenches, on March 14, 1997. The "Notice to Proceed" was issued to R. F. Weston, effective April 1, 1997

FF-2

- The Limited Field Investigations LFI was issued in March 1997

**200 Area Cont'd**

- A draft Negotiations Strategy for the 200 Areas Strategy was provided to RL on March 6, 1996. This negotiations strategy proposed; by Environment Assessment and Permits as a necessary step to obtain Headquarters concurrence/approval. The draft "Public Involvement Plan" was finalized; the public involvement cycle will begin on May 27, 1997
- The Data Quality Objective summary report for the 216-A-29 ditch characterization was finalized. A meeting is being scheduled for mid-April to obtain RL and Ecology signatures
- A compilation of waste site assessment and remediation activities and quantities was transmitted to DOE. This information will provide the engineering basis for future planning of 200 Areas activities and any re-baselining that may be needed. This deliverable satisfies one of the 200 Area RAWDP performance objective criteria's (POCS)

This Quarters Accomplishments (January - March 1997)

100 Area

KR-4/HR-3

- Four Ion exchange skids were connected to the pump and treat systems for HR-3
- Regulator approval of the Interim Action Monitoring Plan Rev. 0 was received on March 22, 1997
- A summary and interpretation of monitoring well data for HR-3 (round 11) and KR-4 (round 10) was completed
- Cultural resource personnel and a Wanapum representative toured the KR-4 pump and treat project on February 26 and found no apparent disturbances to cultural resources
- The HR-3/KR-4 automated water-level network was installed two weeks ahead of schedule

100 NR-1/2

M-15-12B TPA Milestone

- Closure Plan /CMS for 1301-N/1325-N, 1324-N and 1324-NA Crips. CMS to include Closure/Postclosure and IRM proposed plan was submitted to the Regulators on March 5, 1997
- M-16-01A, Engineering Evaluation/Cost Analysis for the 100-N Ancillary Facilities and Integration Plan, Decisional draft was submitted to RL on March 19, 1997 for comment incorporation and review
- N-Springs Pump and Treat System Optimization Study, Draft A, was issued to Ecology for approval

200 West

UP-1

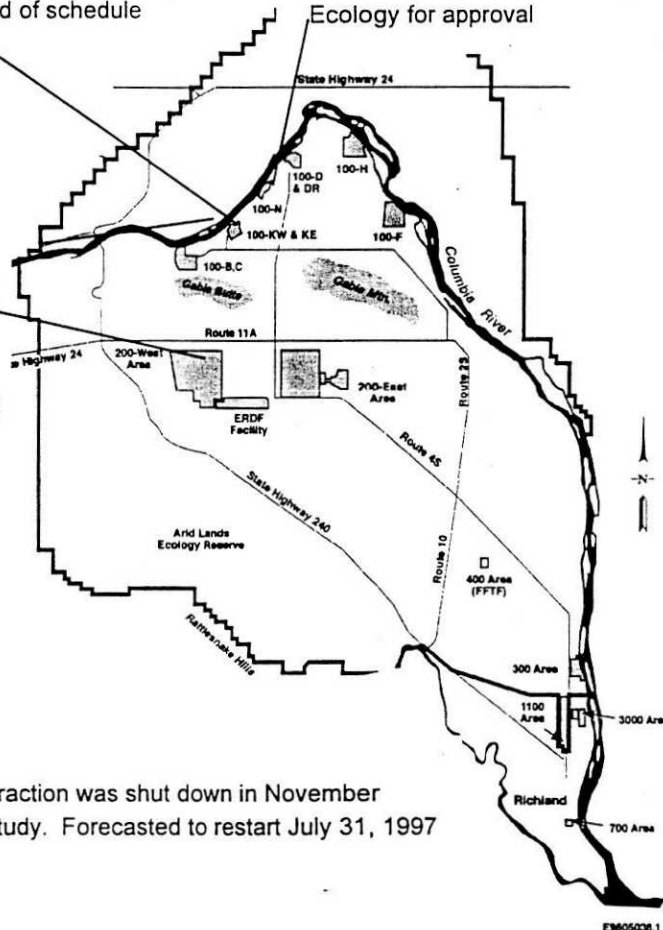
- Treated 3 Mil gal with 36 Mil gal to date with removal of approximately 101 lbs of Uranium, 83 lbs. of Technetium and 24 lbs of Carbon Tetrachloride
- Phase 1 system has operated at approximately 98% availability

ZP-1

- Phase II has processed 43 Mil gallons removing 883 lbs of Carbon Tetrachloride to-date

ZP-2

- The 200-ZP-2 Soil Vapor Extraction was shut down in November 1996 to conduct a rebound study. Forecasted to restart July 31, 1997



Site-Wide Groundwater Monitoring

- Columbia River Comprehensive Impact Assessment (CRCIA) Team presented to the Hanford Site Management Board (SMB) the CRCIA on March 17, 1997. This briefing was intended to communicate what the CRCIA is, how it functions, the status screening level assessment and the "comprehensive" requirements, and the potential benefits of the CRCIA to RL as well as the stakeholders. "Common Ground" was the theme of the presentation

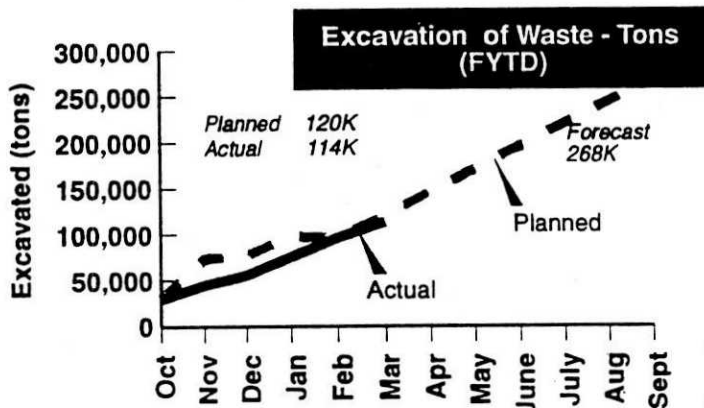
Operations:

- Received 100,048 tons of waste from the 100 B/C and 100 DR Areas during the 2nd quarter bringing the to-date FY 1997 receipts to 160,602 tons or approximately 100,376 loose cubic yards
- Approximate tonnage shipped to-date is 197,833 tons, or 123,645 loose cubic yards
- Approximately 2.1 million gallons of leachate for Cell #1 was transferred to the 200 Area effluent treatment facility (ETF)

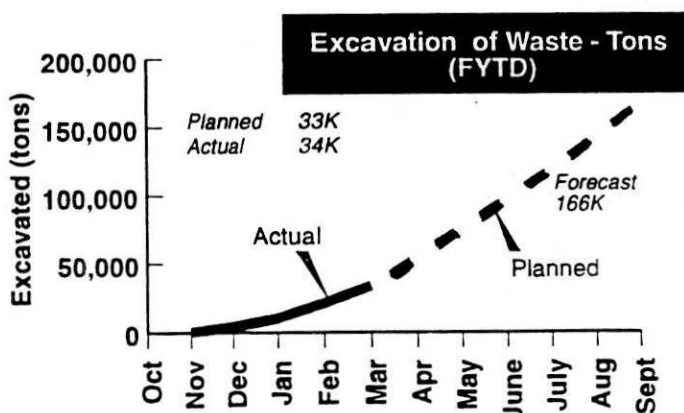
Transportation:

- RCI Environmental, Inc. transported waste from 116-C-1, 116-C-5, 116-B-4, B/C Riverlines, 116-DR-1/2 and 107-D-1/5 waste sites

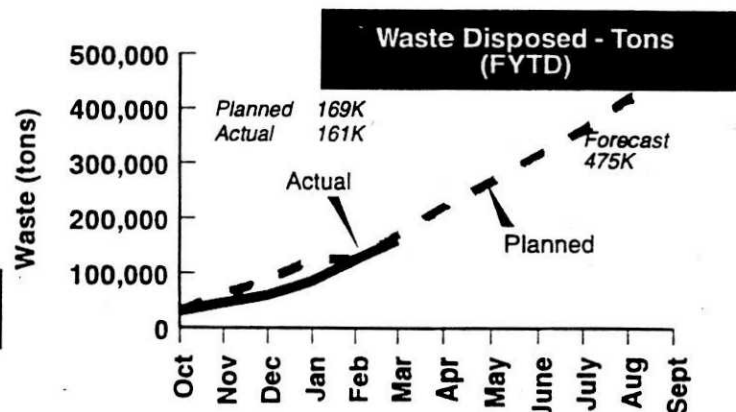
100-BC Remediation



100-DR Remediation

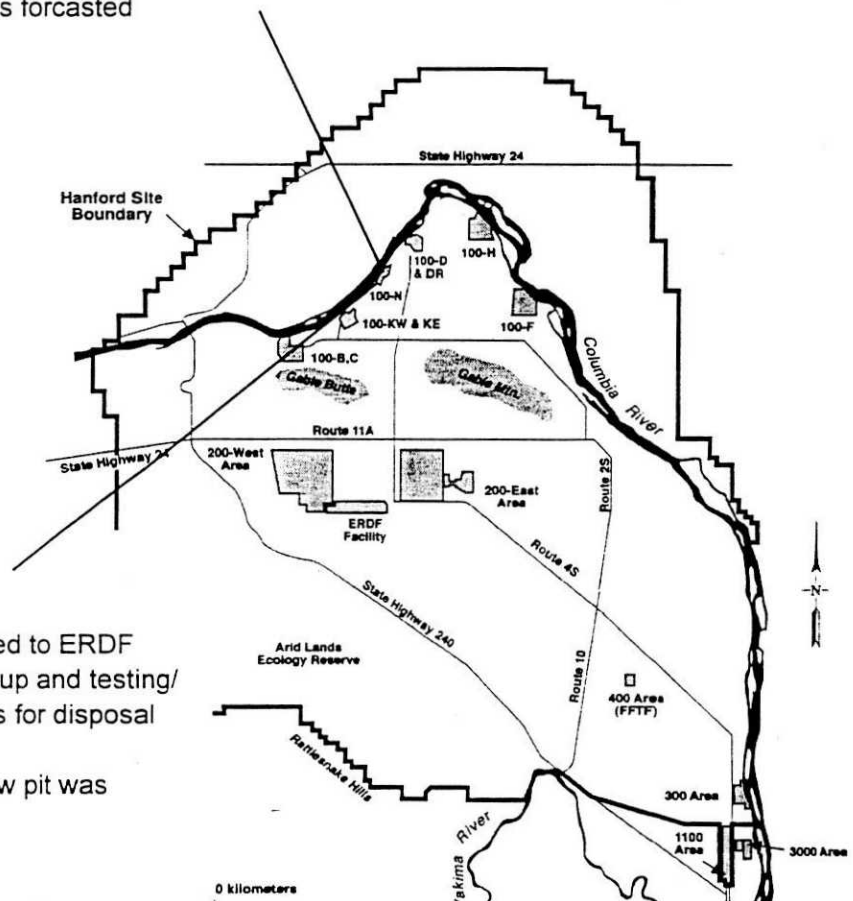


ERDF



N Deactivation

- Dose rate assessments were completed for **107-N**, the basin recirculating and cooling building and for sediment sampling along with the surveillance lighting
- A Baseline Change Proposal (BCP) was processed for Zone 1 cleanup of **105-N** and **109-N**
- An evaluation was initiated to determine what the "skyshine" along the Columbia River will be when the water is removed from **107-N**, **1310-N**, and **1314-N**
- Issued all electrical DCN's required for isolation of the 107-N, 1310-N and 1314-N facilities
- Obtained recorded neutron activity data for the **107-N-1** Tank indicating activity slightly above levels. Data is being reviewed to support completion of the criticality evaluation
- Completed initial "skyshine" evaluation and preliminary report is in review. N Deactivation and N Basin design personnel are jointly reviewing the data and developing a plan for finalization
- Resumed sediment and water removal of the Emergency Dump Basin (EDB) on March 3, 1997 and was completed April 24, 1997 as forecasted



N Basin Activities

- Monoliths 3, 8 and 9 were transported to ERDF with #10, engineering design, mock-up and testing/removal, and transportation activities for disposal were completed
- Chemical injection testing in the view pit was completed
- 9 monoliths have been shipped to ERDF for disposal
- Removed and stored three Lift Station Pumps
- Completed water sampling and removal of piping and valves of the Lift Station
- Completed Phase 1 sampling and transported samples to 222-S lab for analysis
- Initiated design and fabrication of the Air Lift Prototype Tool
- Issued RFP for Fixative application
- ROSEE vacuuming operations began in February, vacuumed 1,447 Sq. Ft. of 5,946 total

**This Quarters Accomplishments
(January - March 1997)**

Demolition Projects

190-C Pumphouse/105-C Water Tunnels

- Completed the interior transite removal activities removal activities
- Completed removal of asbestos from the west valve pits
- Issued the revised ResRad documents to DOE-RL for approval
- Completed electrical isolation of the facility
- Completed Asbestos removal activities, approximately 4,600 cubic feet were moved

187-C Valve Pits

- Activities are on hold pending sample results for any potential hazardous, as well as, radiological materials

118-C-4 Rod Cave

- A draft SAP was issued for internal review and comment

111-B Decon Station Waste Tanks

- A draft SAP was issued for internal review
- DQO Summary was submitted to DOE in March 1997

108-F Biology Lab

- Submitted the RDR for RL review

115-B/C Gas Recirculation Tunnel

- Completed scoping document that supports the DQOs

105-C Reactor Interim Safe Storage

- Asbestos abatement removed 4,017 CF during the 2nd Quarter, with 5,279 removed out of 6,130 CF to date and commenced shipment to ERDF
- Continued room-by-room walkdown: Mod 1 (FY97 Scope) 67 rooms total, 50 rooms to date. Held two project team reviews of the Fan Room walkdown results
- A draft concrete/soil verification SAP was discussed with RL and EPA to obtain up-front agreement with the approach to be taken
- Completed (4) four technology demonstrations: Steam, Gamma Ray Imaging, Position Sensitive Radiation Monitoring, and Hand-Held Battery Powered Pipe Cutter
- Completed fan room surveys
- Initiated general area Decon and Equipment removal

Small Buildings (103-B, 1701-BA, 1714-C, 119B, 1702-C)

- 103-B, 1714-C and 1701-BA buildings final reports were issued
- 1702-C, 1715-B (known as 119-B): A Readiness Assessment was conducted to attest to the readiness for removal action. Both small buildings are Hazardous Classification "Industrial" (on hold for museum)

RCRA Closure Projects

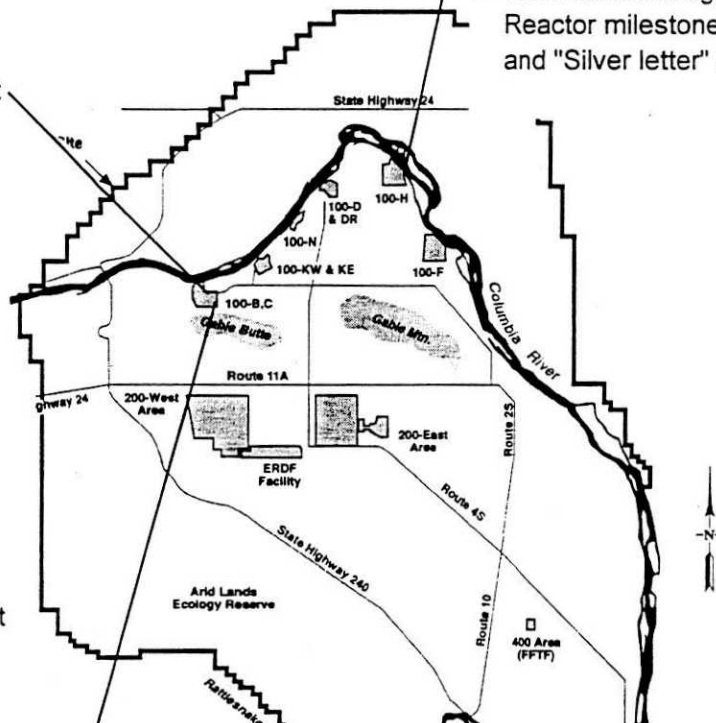
183-H Solar Evaporation Basins

- Approximately 7,000 Cy of 12,000 chemically contaminated soil was sent to ERDF. Radiological contaminated soil has begun.

Demolition Projects Cont'd

Reactor Negotiations

- Were completed successfully on March 28, 1997
- Have tentative agreement on Reactor milestones, TPA section 8 and "Silver letter" closeout form



This Quarters Accomplishments (January - March 1997)

RARA Interim Stabilization

- Completed the interim stabilization of the UN-216-W-24 waste site. The contaminated soil was removed and backfilled into the 216-S-18 Crib. The crib was then over covered with non-contaminated soil and posted as an (URM) Underground Radioactive Mater Area. In addition with this activity, a section of the REDOX railroad cut was also backfilled and down posted to an URM
- Continued to develop the work package for the 207-U Basin stabilization activity. Field work was started in early April

RARA Surveillance and Inspections

- Completed the application of pre-emergent residual herbicides to the outdoor sites. The selective application program is being negotiated with the subcontractor, EMI, to reduce their bid price
- Continued reporting of the event boundary roadway at the B/C Control area as a result of finding new legacy waste

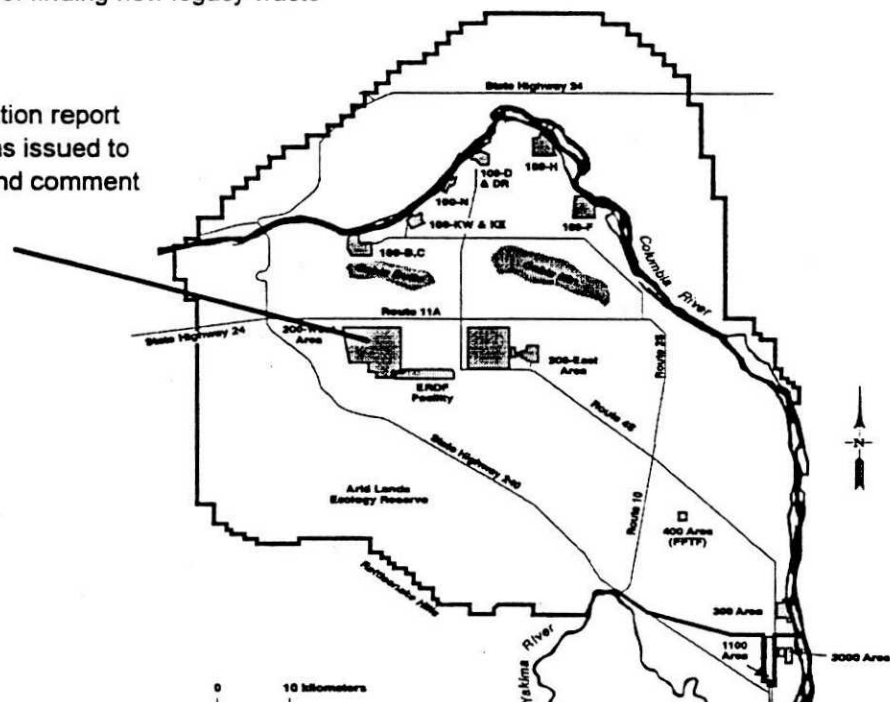
Facility Transition

- PUREX end point verification is 76% complete. An additional 600 endpoints remain to be closed before May 15, 1997.
- Acceptance criteria for the 324 and 327 buildings were transmitted to RL/reactor plant design (RPD)

200 Area D&D

233-S Demolition

- The Draft 233-S characterization report for the non-process areas was issued to the project team for review and comment
- Commenced mobilization planning of personnel and equipment. A site plan showing the administration office, craft trailers and office layout has been developed.
- Completed a self assessment audit regarding the implementation of the 233-S Technical Safety Requirements (TSR) through the ERC work control process



Inactive Facilities S&M

100 Area

- Sample results for the Low Level Waste in the 105-B Reactor have received and packaging requirements established. This will be scheduled for disposal next month thereby completing all legacy waste removal efforts for the 100 Area buildings

200 Area

- Completed all scheduled S&M activities including winterization routines for the 200 Area inactive facilities
- Completed removal of the legacy wastes from the 224-B F/G cells
- Continued to support Sun River Electrical upgrade of the REDOX building

Technology Applications

Conducted assessment of five new technologies for potential application

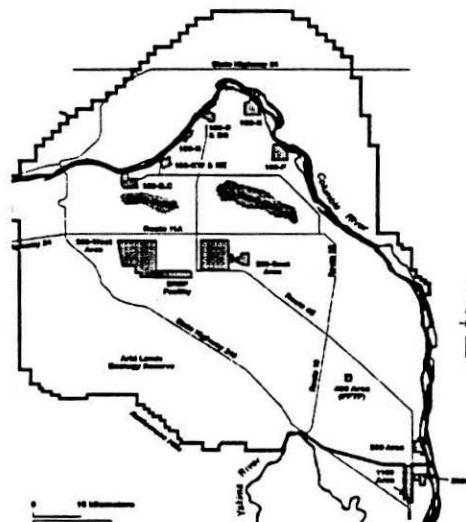
- In Situ Sampler and RCL Monitor (GW)
- Norwave Development and Norwegian Geotechnical Institute Georadar (RA)
- In Situ Permeable Flow Sensors (GW)
- Oxy-gasoline Cutting Torch (D&D)
- Process Piping Inspection (D&D)

Design Engineering

- Revised BHI-00283 (Implementation Plan for DOE order 5480.24 Nuclear Criticality Safety) and EDPI 4.35-01 Criticality Evaluation to require screening for any activity that could involve fissionable material
- Conducted training on recent revisions to EDPI 4.28-01 Hazard Classification and 4.30-01 Safety analysis Documentation, which outlined new guidance regarding hazard classification and the Un-reviewed Safety Question (USQ) process

Environmental Technologies

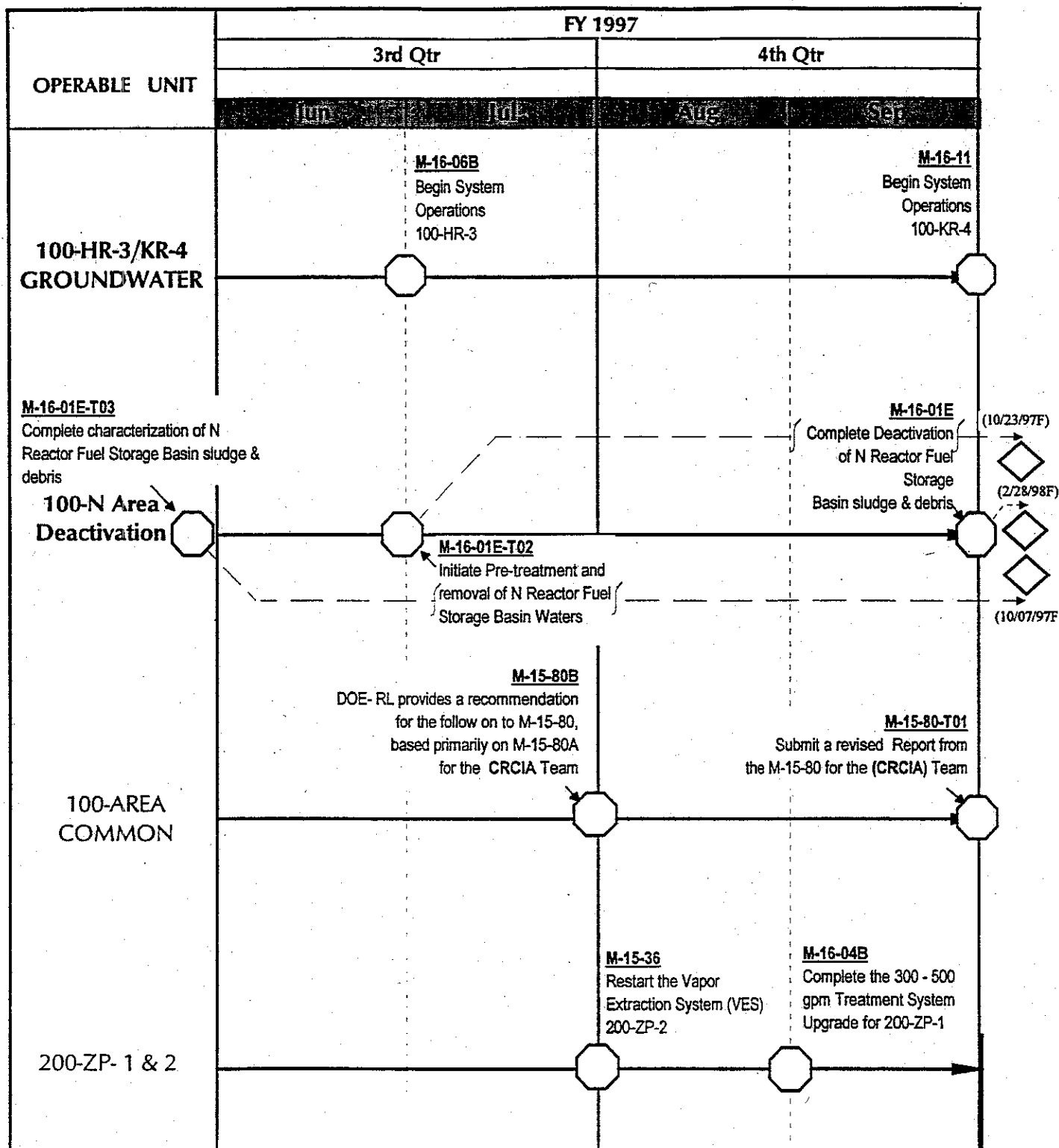
- **Natural Resources & Risk Assessment**
 - Completed the document entitled "Vegetation and Moisture performance on a RCRA equivalent landfill cap at the Hanford site"
 - Evaluated sagebrush die-off in relation to groundwater contamination
 - Initiated project orientation on use of the ERC *Revegetation Manual*
- **Site Investigations**
 - Completed sitewide soil background for the Hanford Site with approval by the State of background values for radionuclides
- **Sample & Data Management**
 - Issued the *Onsite Radiological Measurements Quality Assurance Program Plan*
- **Regulatory Support**
 - Issued the "ERC Waste Management Plan"

**Site Wide Services and Facilities****Safety and Health (S&H)**

- Completed *Employee Job Task Analysis* (EJTA) for all BHI and THI personnel in support of Performance Objective Criteria number three for period 97-1
- The BHI plan to complete **ALARA** training for workers, planners, schedulers, and engineers was transmitted to DOE during the month
- Assembled comments on the Proposed Amendments to 10 CFR 835 from RadCon Staff, other site contractors, and other DOE sites, and transmitted those comments to DOE-HQ

Project Support Activities

- **Project Controls**
- Draft A of the **FY 1997 Cost Baseline** to RL and HQ for review and comment
- Pre-kickoff of the MultiYear Work Plan (**MYWP**) guidance and lessons learned
- Conducted a detail review of resources/staffing required for the balance of FY 1997 for ADS 3400 based on the latest forecast hours
- Issued the draft **ES&H ADS crosscut** to FDH for review and comment
- Met with Planning & Controls representatives from the Savannah River ER project to discuss tools and methods for controlling distributable costs



Legend:



TPA Milestones



Forecast

Issue	Impact	Corrective Actions
<p>Waste Disposal</p> <ul style="list-style-type: none"> On March 3, 1997, concrete debris containing approximately 80 sf. of contaminated asbestos was inadvertently transported to ERDF. 	<ul style="list-style-type: none"> Prior to shipment, the asbestos material had been properly segregated and placed in burial containers. No inhalation effects resulted. 	<ul style="list-style-type: none"> A critique was performed to determine causes and recommended corrective actions. Corrective actions were instituted and personnel trained to the new procedures. An independent assessment was scheduled to review the waste identification and shipping process and procedures. Lessons learned was shared across the ERC project.
<ul style="list-style-type: none"> On March 21, 1997, remediation of 100-D, BHI inadvertently shipped approx. five (5) cubic yards of materials containing a small amount of lead, to ERDF. 	<ul style="list-style-type: none"> The material shipped exceeded the ERDF waste acceptance for criteria for lead. RL and Regulators were immediately notified. 	<ul style="list-style-type: none"> A critique was performed to determine causes and recommended corrective actions. Corrective actions were instituted and personnel trained to the new procedures. An independent assessment was scheduled to review the waste identification and shipping process and procedures. Lessons learned was shared across the ERC project.
<ul style="list-style-type: none"> Considerable amounts of contaminated soil and asbestos-containing mastic wrap were discovered around the B/C pipelines. Baseline contains no allowance for contaminated soil due to lack of characterization data. 	<ul style="list-style-type: none"> Additional subcontractor quantities and costs. Delays in excavation of the plume to the north of 116-C-1 trench which will also delay the backfill of the 116-C-1 trench for several additional months. 	<ul style="list-style-type: none"> The additional contaminated soils are being excavated and shipped using the subcontract unit rate planned for this type of contingency. A subcontract change order is being prepared to address removal and handling of this asbestos containing material on the pipes.

Issue	Impact	Corrective Actions
<ul style="list-style-type: none"> ♦ Ecology policy statement WAC 173-303, prohibits Investigative Derived Waste (IDW) deposited at ERDF. ♦ Some wastes , i.e. , paper, plastic, ect. cannot be deposited on site. 	<ul style="list-style-type: none"> ♦ Higher costs and lower efficiencies result. 	<ul style="list-style-type: none"> ♦ Ecology requested to revise WAC 173-303 policy statement.
<p>200 Area Strategy</p> <ul style="list-style-type: none"> ♦ The current funding level for the 200 Area source effort remediation does not support TPA Milestones. 	<ul style="list-style-type: none"> ♦ The Waste Site Grouping Report review by EPA is proceeding behind schedule and the TPA change package cannot be finalized until the funding level for 200 Areas is reconciled with the TPA milestones. 	<ul style="list-style-type: none"> ♦ ERC and RL management are working with Regulators to establish an implementation plan for the 200 Area Strategy and adjust TPA milestones based on the implementation plan.
<p>N Basin Project</p> <ul style="list-style-type: none"> ♦ TPA Milestone M-16-01E for Completion of N Deactivation by September 30, 1997, is unattainable and is listed as "Unrecoverable." 	<ul style="list-style-type: none"> ♦ Poor water clarity, additional high-dose material, and worker exposure as the water is lowered issues have delayed the recovery schedule beyond the September 30, 1997 completion date. 	<ul style="list-style-type: none"> ♦ A re-evaluation of the N Basin schedule is nearing completion. ♦ An enhanced filtration and chemical injection system has been installed and is showing positive results. ♦ An "air lift" vacuuming system was installed to supplement the ROSEE vacuuming system for debris removal. ♦ Floor and walls in the Basin area will be decontaminated to reduce worker exposure. A shielding plan is being developed.

Issues

Issue	Impact	Corrective Actions
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Work Breakdown Structure*(For Performance Graphs)***Remedial Actions / ERDF**

ADS - 3100	100 - DR Operable Unit
ADS - 3100	100 - BC Operable Unit
ADS - 3100	100 - KR Operable Unit
ADS - 3100	100 - FR Operable Unit
ADS - 3100	100 - HR Operable Unit
ADS - 3200	200 - BP Operable Unit
ADS - 3200	200 - UP Operable Unit
ADS - 3300	300 - FF Operable Unit
ADS - 3390	1100 - EM Operable Unit
ADS - 3700	ER Disposal Facility

Ground Water Management

ADS - 3110	100 - BC Operable Unit
ADS - 3110	100 - KR Operable Unit
ADS - 3110	100 - FR Operable Unit
ADS - 3110	100 - HR Operable Unit
ADS - 3115	Site Groundwater Monitoring
ADS - 3125	100 - NR (N-Springs)
ADS - 3210	200 - BP Operable Unit
ADS - 3210	200 - PO Operable Unit
ADS - 3210	200 - UP Operable Unit
ADS - 3210	200 - ZP Operable Unit

N Area Deactivation Project

ADS - 3600	N Area Deactivation Project
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N Basin Cleanout

ADS - 3600	N Basin Cleanout Project
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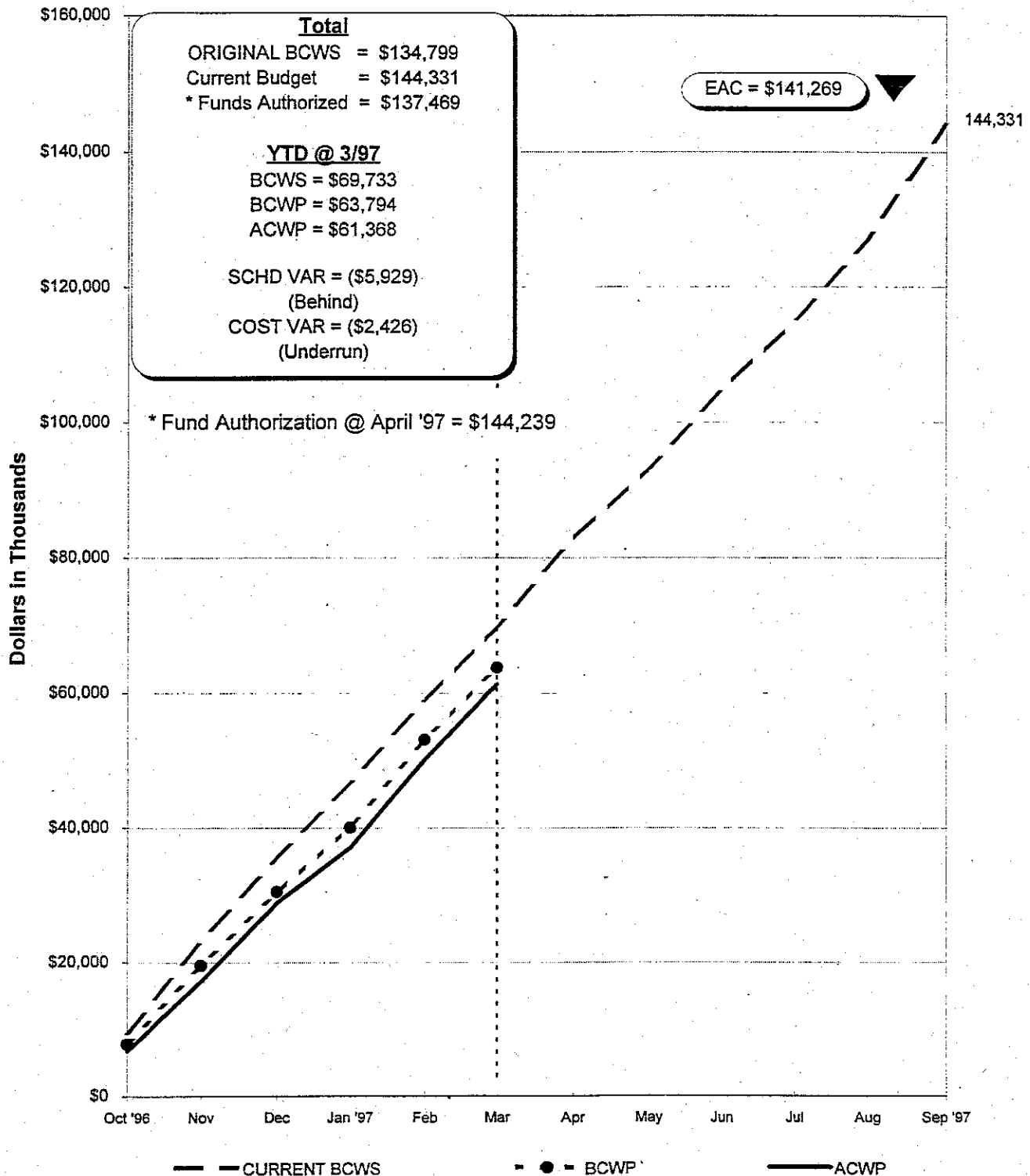
D & D

ADS - 3020	RCRA Closures
ADS - 3500	RARA / USTs/S&M
ADS - 3510	Asbestos Abatement
ADS - 3510	100 Area D&D
ADS - 3510	200 Area D&D
ADS - 3800	Post Remediation S&M

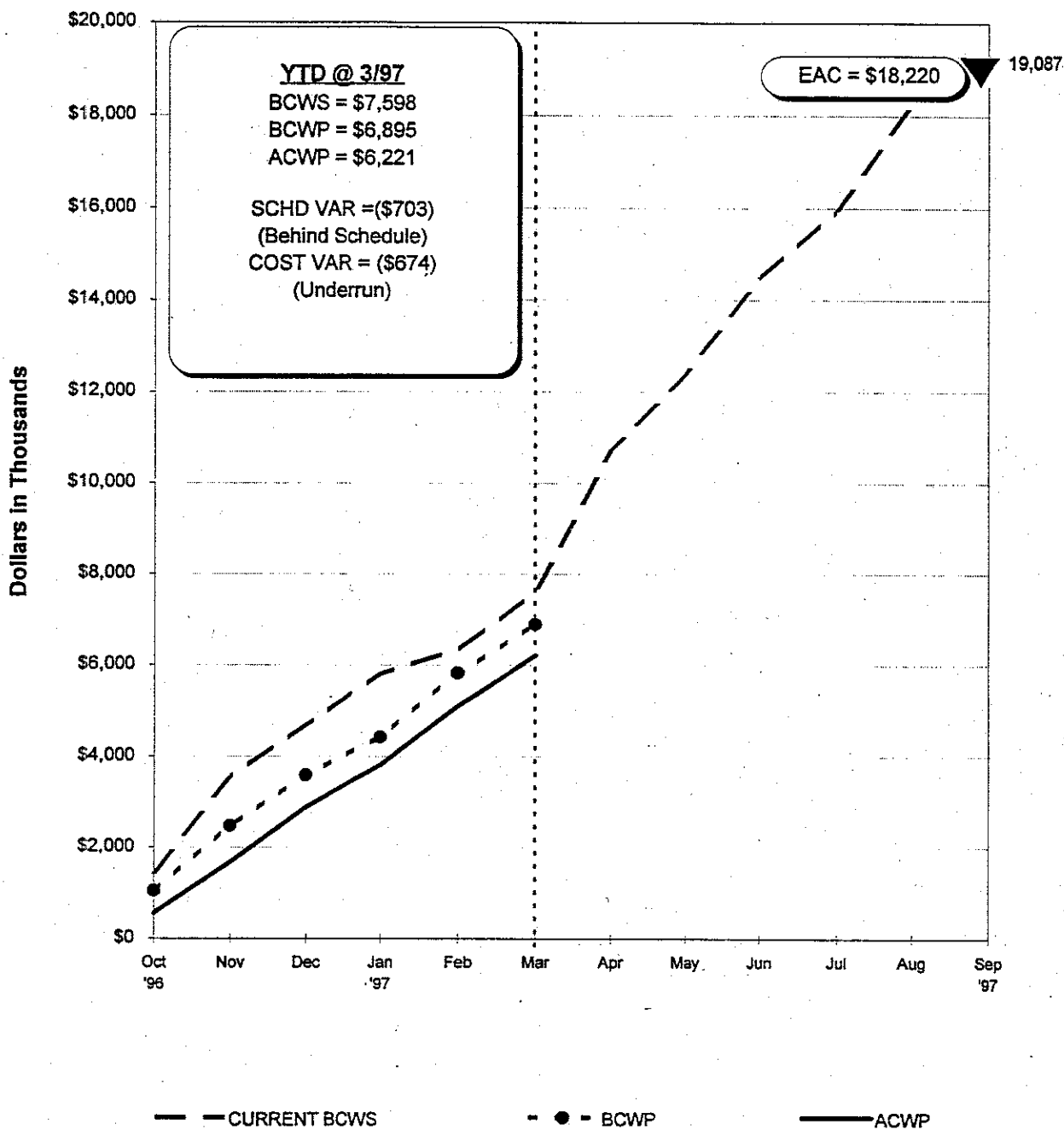
Support Projects

ADS - 3400	Program Support - BHI
ADS - 3410	Program Support - RL, USACE, PNL

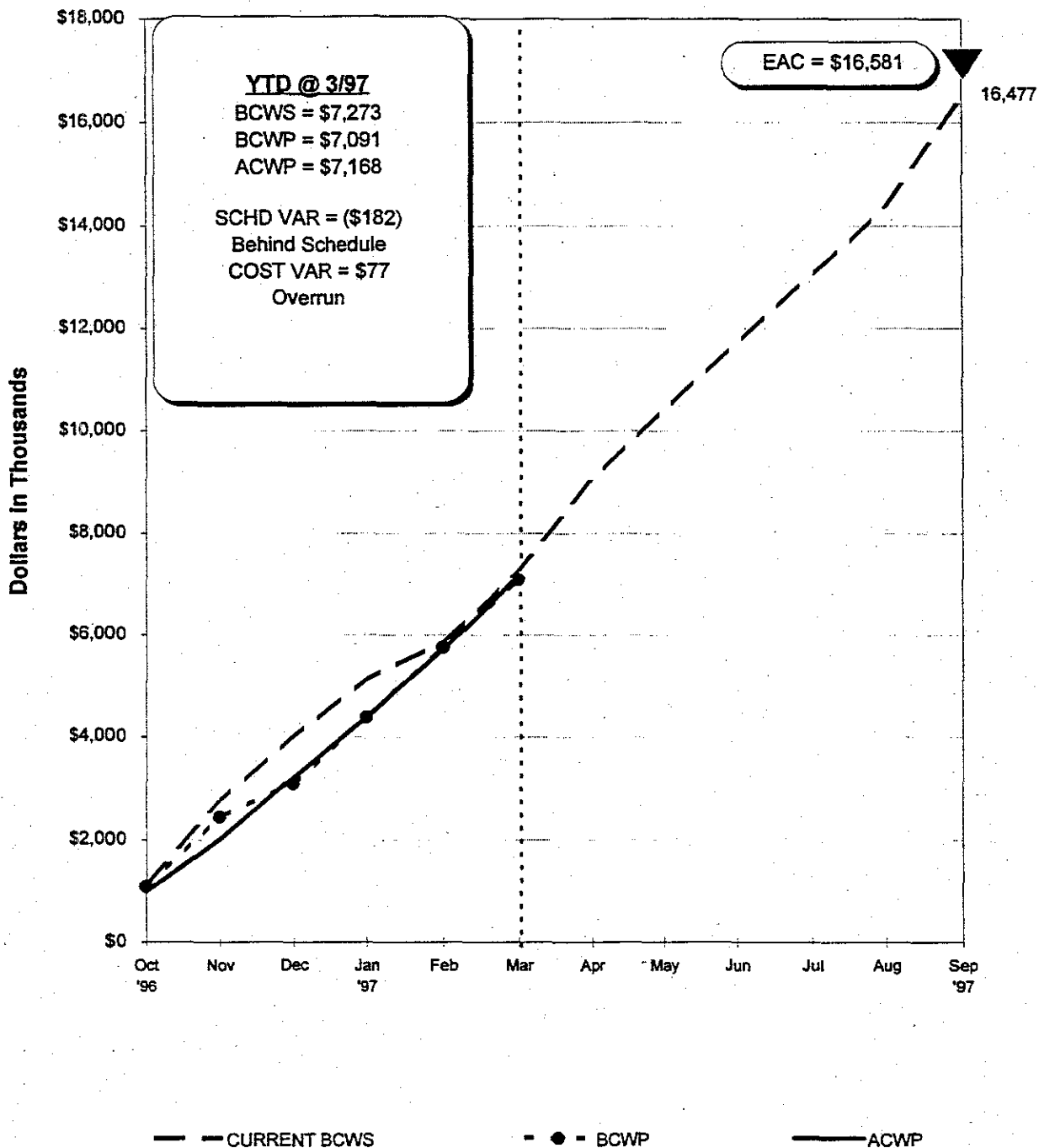
FY 1997 Total ER Performance Summary



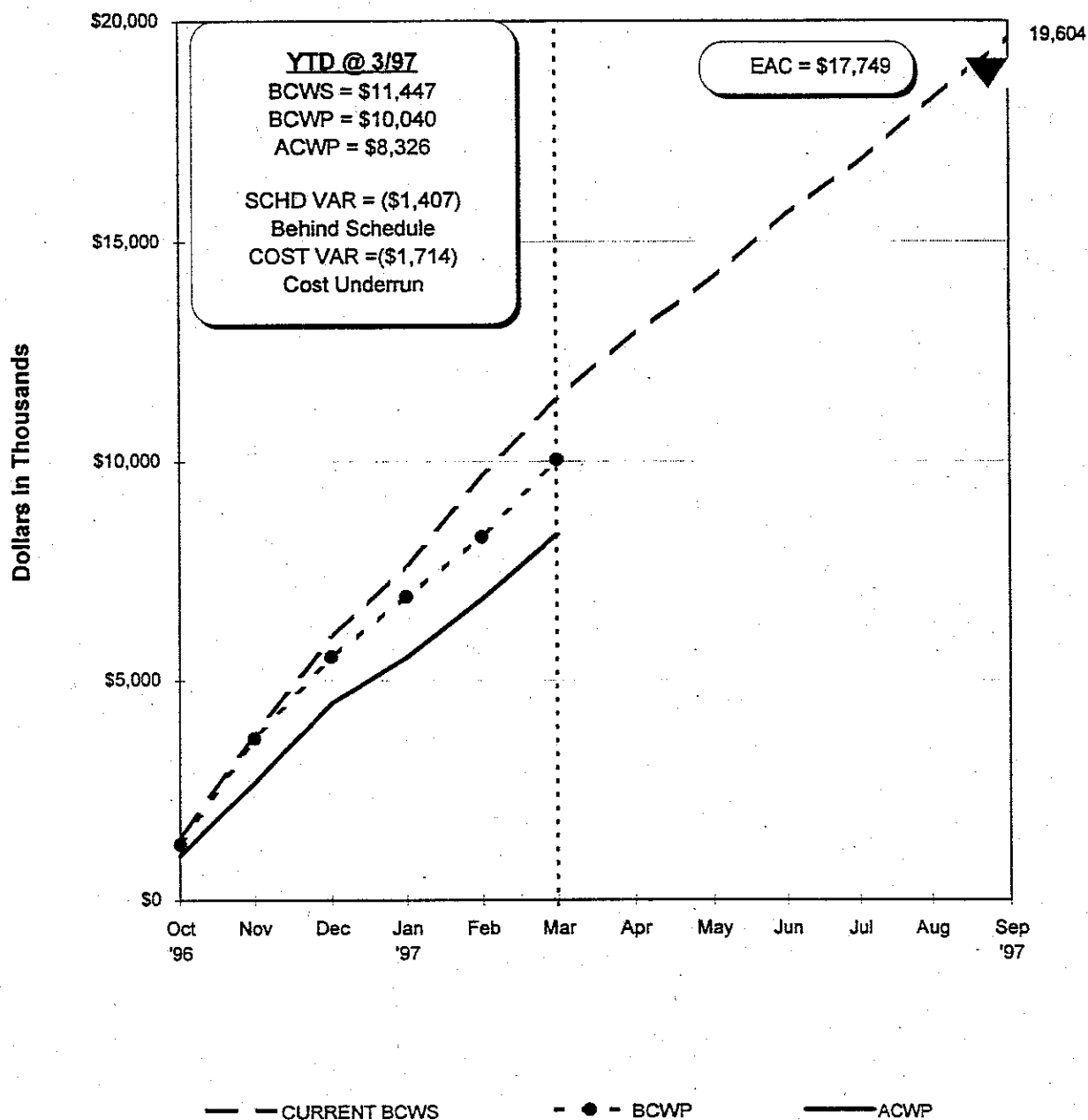
FY 1997 Remedial Actions Performance



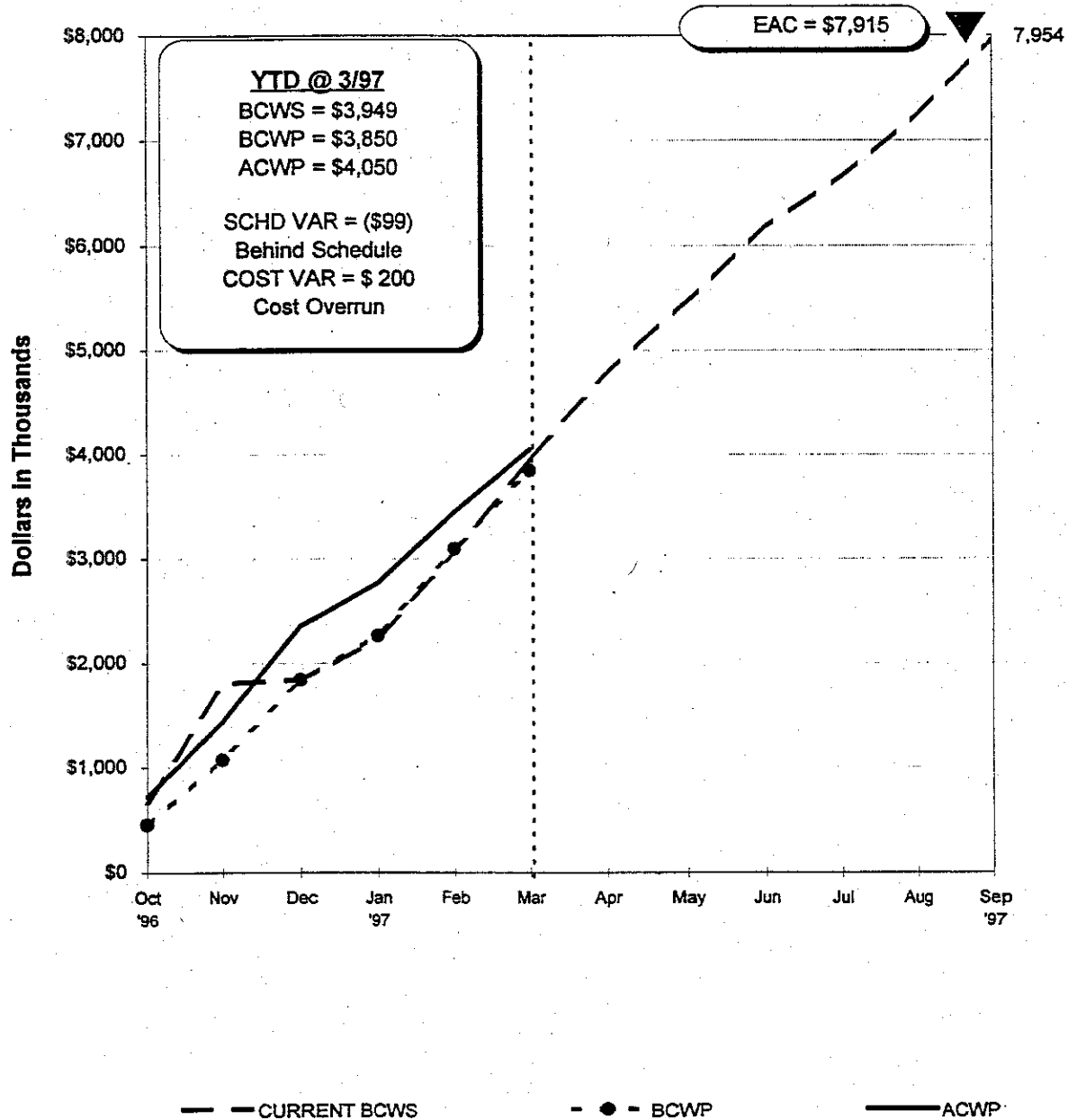
FY 1997 ERDF Performance



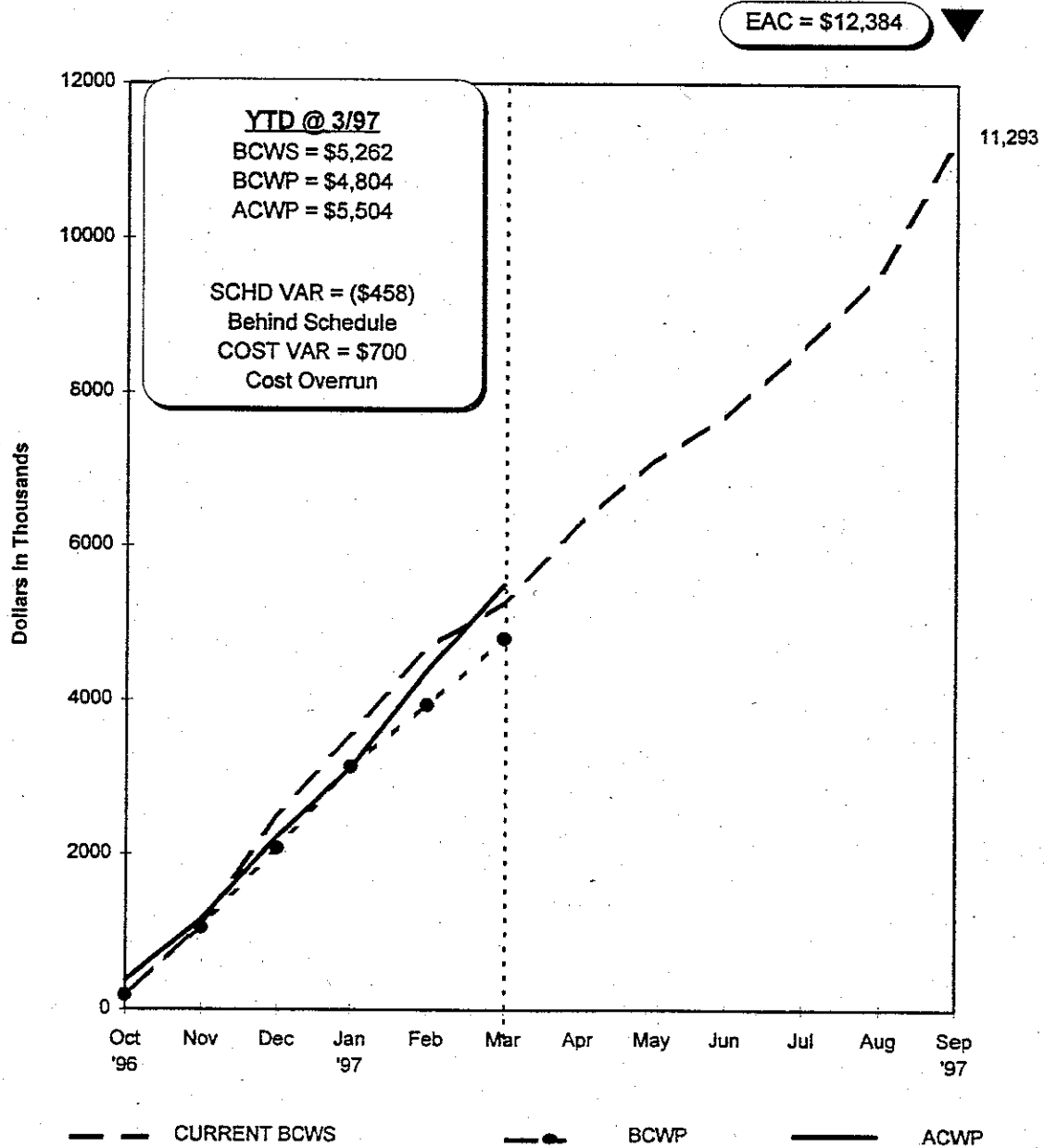
FY 1997 Groundwater Management



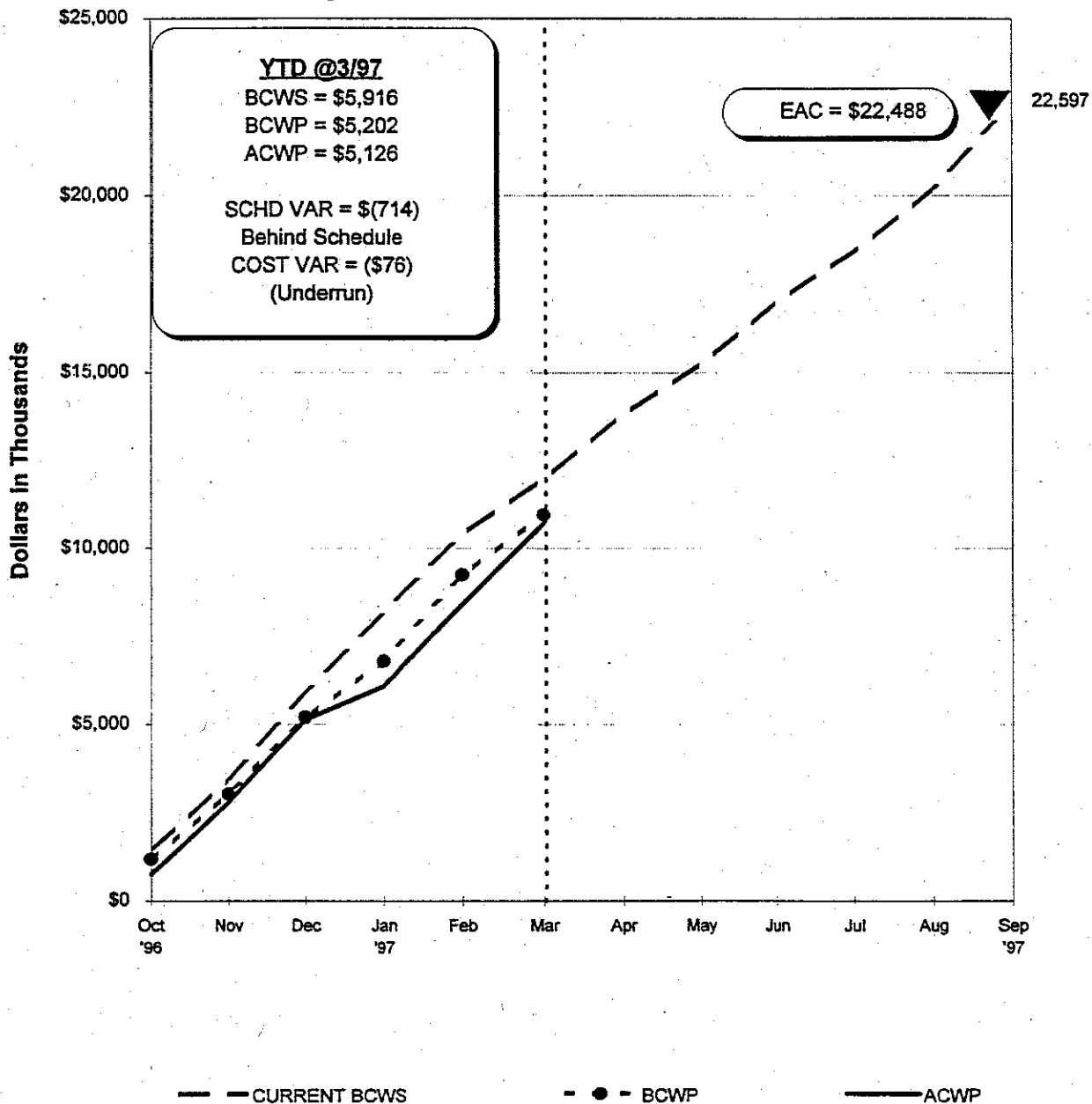
FY 1997 N Area Deactivation Performance



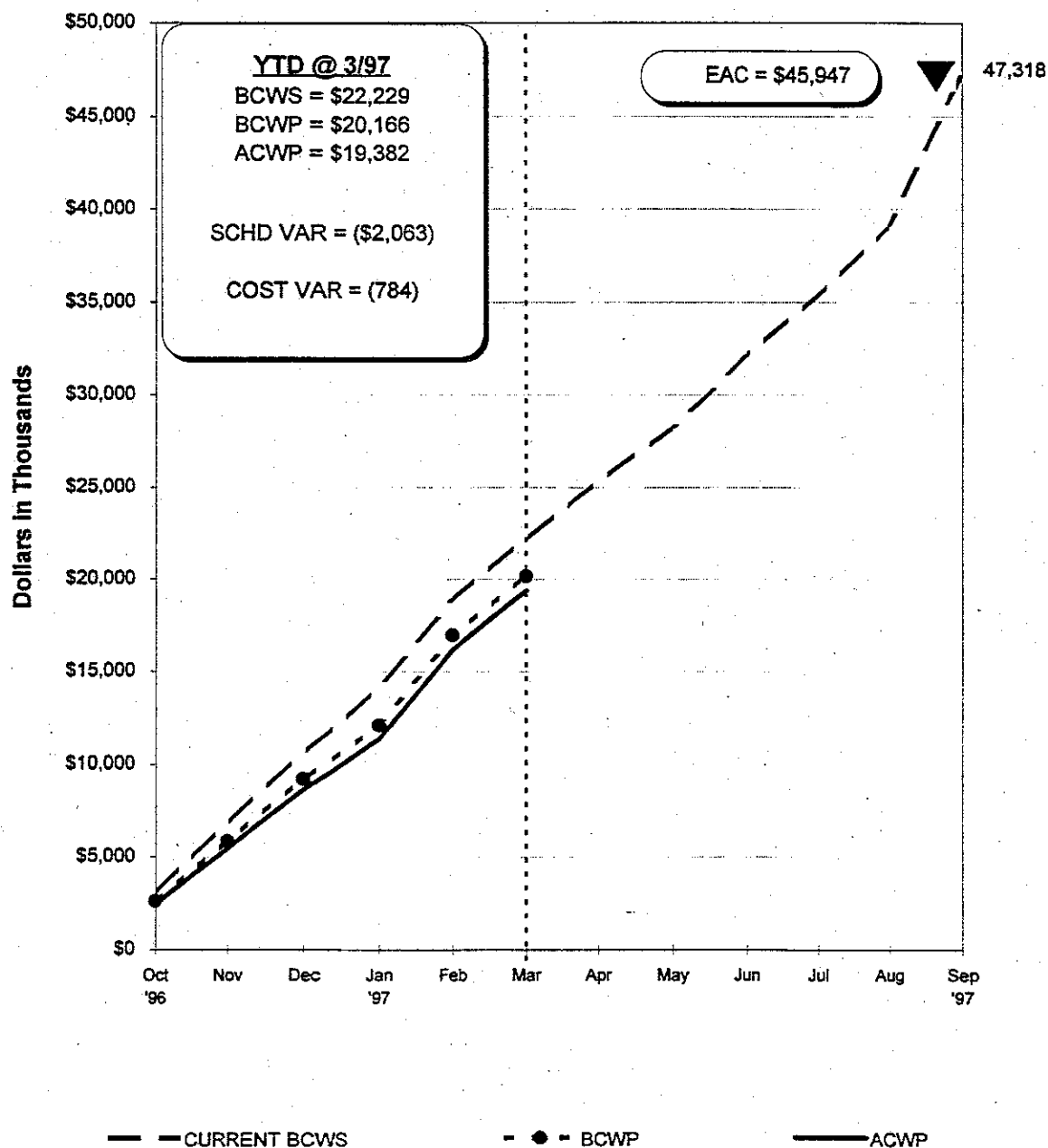
FY 1997 N Basin Project Performance



FY 1997 D & D Performance



FY 1997 PM&S Performance



FY 1997 - Schedule / Cost Variance Summary**Schedule Variances (>\$350 thousand @ ADS Level):**

Operable Unit / \$ Variance (000's)	Description & Cause
ADS 3100 100-B/C-1 RA	♦ Excavation of the 116-C-1 trench finished late due to subcontractor equipment failures, causing a delay in the remediation effort. This also resulted in the late start of 116-C-5 and Pipelines. Sampling and lab analysis are not required as early as planned (\$537K) behind schedule.
ADS 3110 100-KR-4 GW	♦ Chemical Treatment - Fabrication/installation of electrical/control panels and pumps are behind schedule due to delays in procurement. Subcontractor delays have occurred in procurement of the Ion Exchange System. March efforts have been focused on completing the 100-HR-3 Pump & Treat system, (\$519K) behind schedule.
ADS 3110 100-HR-3 GW	♦ Chemical Treatment - Fabrication/installation of electrical/control panels and pumps are behind schedule due to delays in procurement. Subcontractor delays have occurred in procurement of the Ion Exchange System (\$485K) behind schedule.
ADS 3210 200-ZP-1 GW	♦ Physical treatment - Phase 3 construction upgrades are about a month behind schedule due to a late submittal, weather and completion of design drawings. Budget has been time phased in accordance with field work. Accruals have been lagging behind actual field work. Process building upgrades and surface stabilization activities are scheduled for June, (\$384K) behind schedule
ADS 3510 100-BC-1 D&D	♦ Delay in approval of the Final Hazardous Classification and authorization to proceed, (\$708K) behind schedule.
ADS 3600 100-NR-1 N BASIN CLEAN-OUT	♦ Delays in lift station sampling due to resolution of TCLP Issue requiring additional dose rate samples. Sampling delays have impacted other work activities, such as water and sediment removal planning. Other delays are caused by identification of lead paint on piping to be removed, del for pump removal due to inclement weather, manpower resource shortages, and the resolution of waste disposal issues with ERDF

Richland ER Project

Cost Variances (>\$350 thousand @ ADS level)

Operable Unit / \$ Variance (000's)	Description & Cause
ADS 3100 100 Area RA \$463K Cost underrun	100-DR <ul style="list-style-type: none">♦ Group 3 Remedial Design - (1) After review of the 60% design package indicates the total cost will be less than anticipated, \$227K underrun. (2) 100 D Ponds; document preparation was less complicated than originally planned, \$62K underrun 100-HR <ul style="list-style-type: none">♦ RI/FS for ESD-2 Sites - (1) Overall accrual in 9/96 is producing a reversal. (2) ESD is on hold, \$84K underrun. 100-BC <ul style="list-style-type: none">♦ Over-accrual of FY96 subcontract costs of \$80K were reversed. Excavation costs are running below plans, due to cost efficiencies, \$53K underrun.
ADS 3110 100-Area GW \$1,083K Cost Underrun	100-HR-3 <ul style="list-style-type: none">♦ (1) Prior Year cost adjustments \$141K (2) Monitor/sample/test analysis per NPL agreement, the number of wells and analytes samples were reduced, resulting in analyti and material costs savings. Combining the 100-HR-3 and 100-KR-4 borehole summary reports resulted in a cost effeiciency. Total cost saving of \$143K (3) Chemical treatment - Procurment of capital performance equipment was less than the original change order estimate, and combining the 100-HR-3 and 100-KR-4 Interim Action Monitoring Plan and receipt of favorable comments eliminated the need for an extensive re-write, resulting in a cost savings of \$376K. 100-KR-4 <ul style="list-style-type: none">♦ (1) Project support for 100-HR-3 is addressing the most significant effort related to upgrades. KR-4 upgrades, scheduled to complete after HR-3, are benefiting from HR-3 efforts for a cost underrun of \$106K (2) Chemical treatment - Procurment of capital performance equipment was less than the original change order estimate, and combining the 100-HR-3 and 100-KR-4 Interim Action Monitoring Plan and receipt of favorable comments eliminated the need for an extensive re-write, resulting in a cost savings of \$90K (3) Monitor/sample/test analysis per NPL agreement, the number of wells and analytes samples were reduced, resulting in analyti and material costs savings of \$123K.

*Environmental Restoration
TPA Quarterly Review (5/97)*

Richland ER Project

Cost Variances (>\$350 thousand @ ADS level)

Operable Unit / \$ Variance (000's)	Description & Cause
<p>ADS 3210 200-Area GW</p> <p>\$524K Cost Underrun</p>	<p>200-UP-1</p> <ul style="list-style-type: none"> Operations - Procurement of resin is lower than originally estimated; efficiencies in operations (the system is running at nearly 100% versus 90% baseline availability), which has reduced engineering and maintenance costs and accrual of subcontractor samplings, has not occurred, \$99K underrun. Prior year cost adjustment - reversal of FY96 WHC costs, \$37K underrun. <p>200-ZP-1</p> <ul style="list-style-type: none"> Physical Treatment - Capital construction and operations costs were not incurred as planned due to weather delays. Costs will be incurred as construction activities and operations increase, \$236K cost underrun Prior year cost adjustment - reversal of overstated FY96 year end capital construction accrual for Wheelabrator, and reversal of FY96 performance fee, \$205K cost overrun. <p>200-ZP-2</p> <ul style="list-style-type: none"> Physical Treatment - System ran very efficiently prior to shutdown, resulting in limited maintenance and engineering support. No costs have been incurred for GAC waste disposal. System shutdown was extended to April 30, 1997.
<p>ADS 3500 Surveillance and Maint. 100/200 Areas</p> <p>\$131K underrun</p>	<p>RARA</p> <ul style="list-style-type: none"> Stabilization - Marking and mapping, w/107-KE stabilization deferral, \$118K underrun. S&M Herbicide Application - To-go Staffing evaluation and reforecast of herbicide application subcontract cost, \$330 underrun. <p>200 Area S&M</p> <ul style="list-style-type: none"> Cross training of RCT and increase in radiological controls due to 224-B incident, \$84K underrun. <p>Risk Assessment</p> <ul style="list-style-type: none"> Greater than anticipated field support for the subcontractor (i.e., overtime) and transformer removal, overtime for ASA's and status under reported for accrued subcontractor amounts, \$437K overrun. <p>Facility Transition</p> <ul style="list-style-type: none"> Resources are below planned levels due to the reduced number of facilities requiring transition support. FFTF and K Basin have been deferred, \$57K underrun.
<p>ADS 3510 D&D</p>	<p>100-BC</p> <ul style="list-style-type: none"> Small buildings (103-B, 1714-C & 1702-C) were consolidated into one project to encompass readiness, assessments, mobilization & demobilization realizing cost savings of \$60K underrun 105-C ISS Assessment - Additional non-manual hours are needed to complete the TP&L design and expedite delivery; prepare an Auditable Safety Analysis; calculate additional dose exposure scenarios for the Final Hazards Classification; as well as subcontractor charges to incorporate changes from PFWR reviews and performing seismic calculations, \$651K overrun.

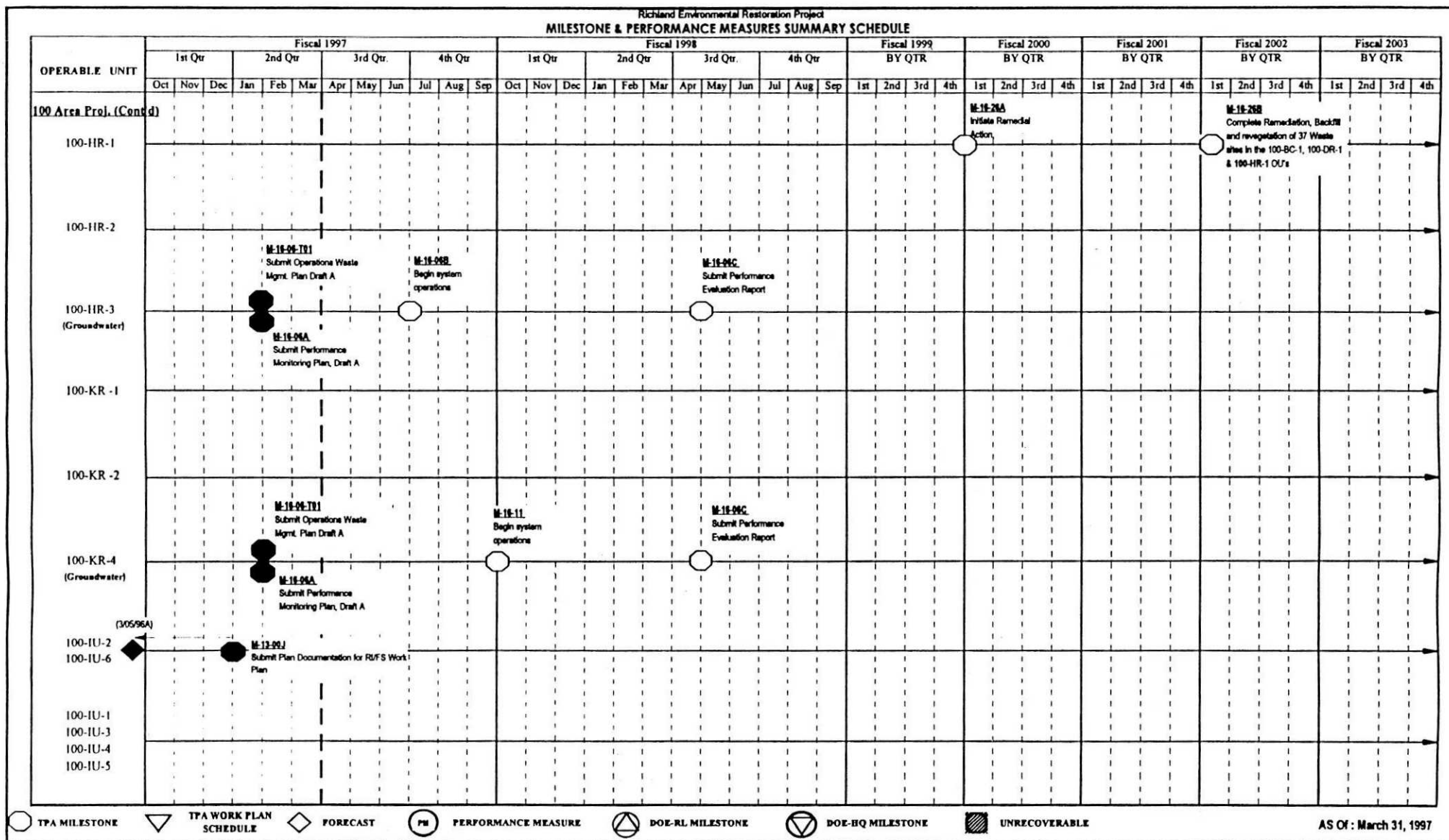
**Environmental Restoration
TPA Quarterly Review (5/97)**

Cost Variances (>\$350 thousand @ ADS level)

Operable Unit / \$ Variance (000's)	Description & Cause
3ADS 3400 Project Management & Support \$784K Underrun	Technical Support <ul style="list-style-type: none">♦ Waste management plan/procedure development efforts were more complex than planned and Regulatory reviews have exceeded plans, \$110K overrun.♦ Sitewide system engineering support activities were moved to later in the year to align with the PHMC plan, \$129K underrun. Correction for cost accruals for scaffolding purchased in FY96 should have been charged to the 105-C project, \$106K underrun. Planning & Controls <ul style="list-style-type: none">♦ (1) Standardization of content and forms for the Progress Tracking System and♦ Monthly Progress report (2) utilization of the task team approach and planning of work scope to minimum requirements, \$176K underrun. QE&SH <ul style="list-style-type: none">♦ (1) Labor is underrunning in two areas - Self Assessments and RadCon, (2) Misc. special charging to projects (N-Basin ORR) (3) Difference for FY96 accruals and actuals, \$244K underrun
ADS 3600 N BASIN Cleanup \$700K Overrun	<ul style="list-style-type: none">♦ Increased radiological controls, as well as an added D&D worker to each shift for access control, (2) additional resources were required to complete the chemical injection system (as well as air monitoring) for air inversion, (3) HERH activities for filtration and treatment of water, (4) additional resources were required for retrieval of Monolith #10 and FTF systems shielding and electrical designs (5) a rate differential for F/S Engineers Vs. Design Engineers
ADS N BASIN DEACTIVATION \$263K Overrun	<ul style="list-style-type: none">♦ Sediment removal equipment did not operate as efficiently as anticipated because of sediment particle size. Additional costs were incurred in replanning and redesigning the sediment removal process for the Emergency Dump Tank (EDT)

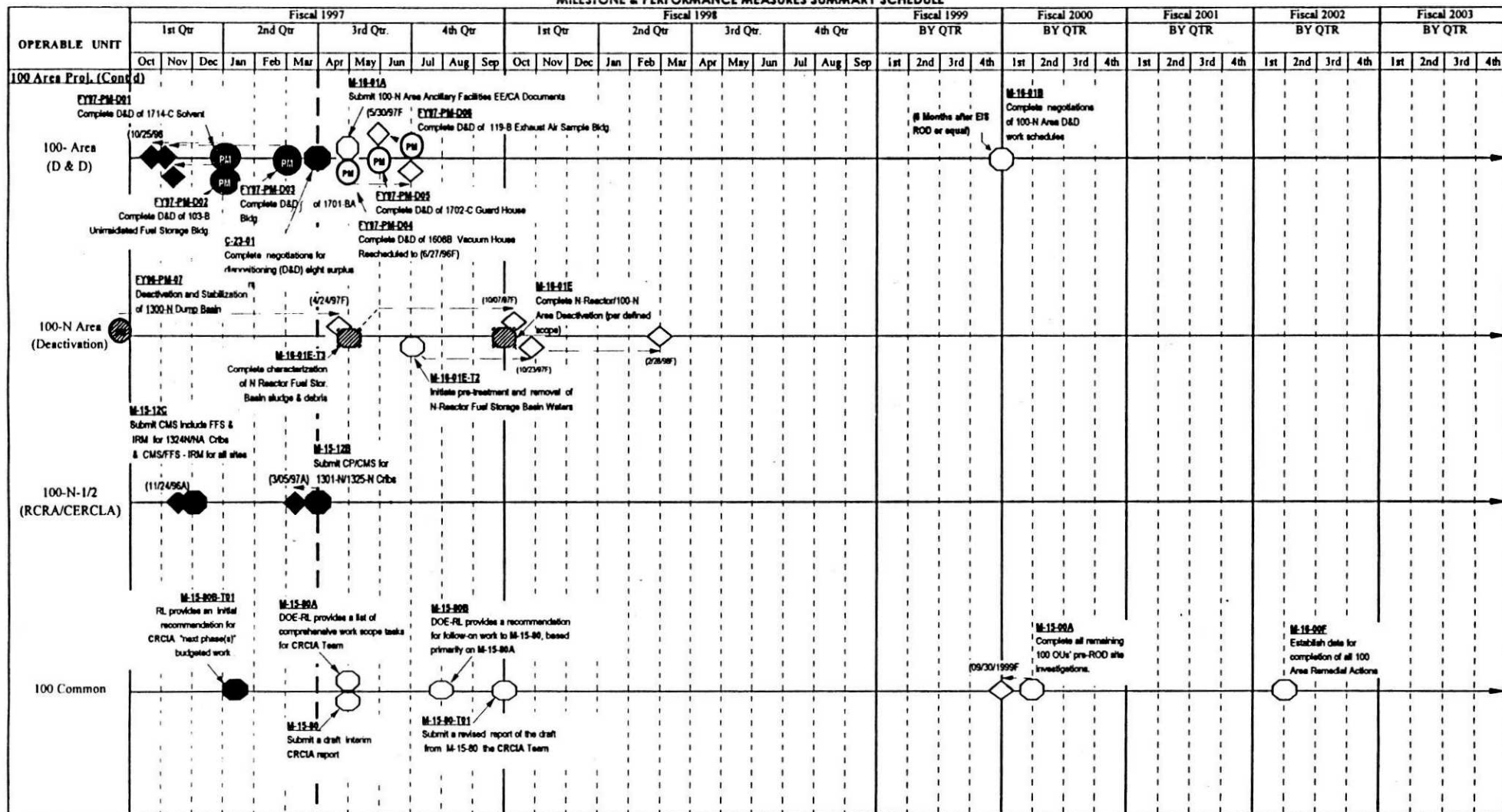
		Fiscal 1997								Fiscal 1998								Fiscal 1999				Fiscal 2000				Fiscal 2001				Fiscal 2002				Fiscal 2003															
OPERABLE UNIT		1st Qtr			2nd Qtr			3rd Qtr			4th Qtr			1st Qtr			2nd Qtr			3rd Qtr			4th Qtr			BY QTR				BY QTR				BY QTR				BY QTR				BY QTR							
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th				
100 Area Projects		<div style="display: flex; justify-content: space-between;"> <div> <p>EY16-PM-81 Complete Excavation for Disposal for 116-C-1 and 116-B-4 waste sites (Pending Extension)</p> </div> <div> <p>EY17-PM-R02 Complete excavation of 116-C-5 Retention Basin (7/11/96F) (8/18/96F) PM</p> </div> <div> <p>EY17-PM-R01 Complete excavation of 116-B-1 Trench PM</p> </div> <div> <p>M-18-40B Complete Remediation & Backfill of 15 Waste sites and Process Effluent Pipelines PM</p> </div> <div> <p>M-18-26B Complete Remediation, Backfill and revegetation of 37 Waste sites in the 100-BC- 1, 100-DR-1 & 100-HR-1 OU's PM</p> </div> </div>																																															
100-BC-1																																																	
100-BC-2																																																	
100-BC-5 (Groundwater)																																																	
100-DR-1	<p>(11/25/96A)</p> <p>M-18-87A Initiate Remedial Action</p> <p>EY17-PM-R02 Complete excavation of 116-DR-1/2 Trench PM</p> <p>M-18-87B Complete Remediation, Backfill of 15 Waste sites PM</p>																																																
100-DR-2																																																	
100-FR-1																																																	
100-FR-2																																																	
100-FR-3 (Groundwater)																																																	

○ TPA MILESTONE ▽ TPA WORK PLAN SCHEDULE ◇ FORECAST (PM) PERFORMANCE MEASURE ⊕ DOE-RL MILESTONE ⊖ DOE-BQ MILESTONE ■ UNRECOVERABLE



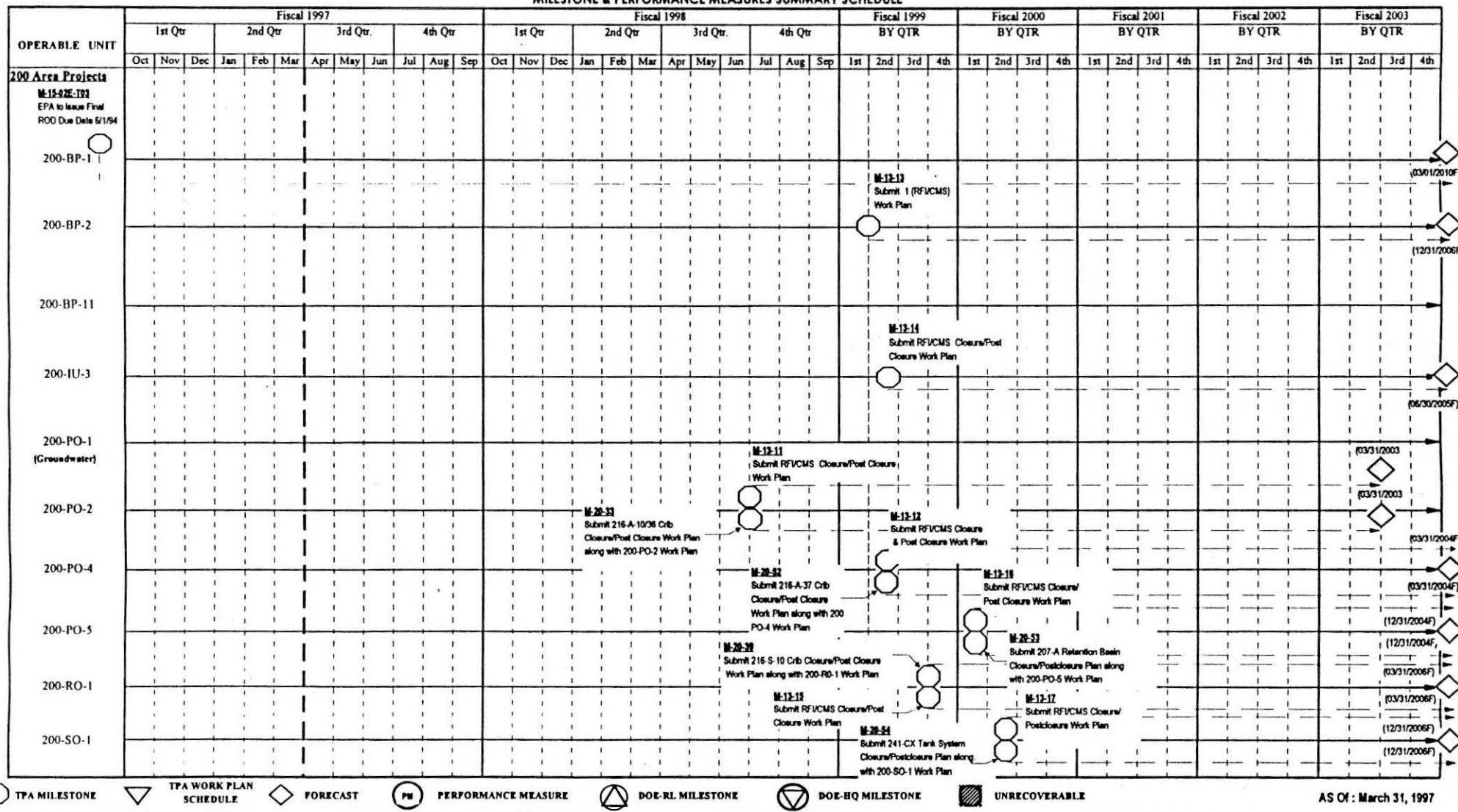
Richland Environmental Restoration Project

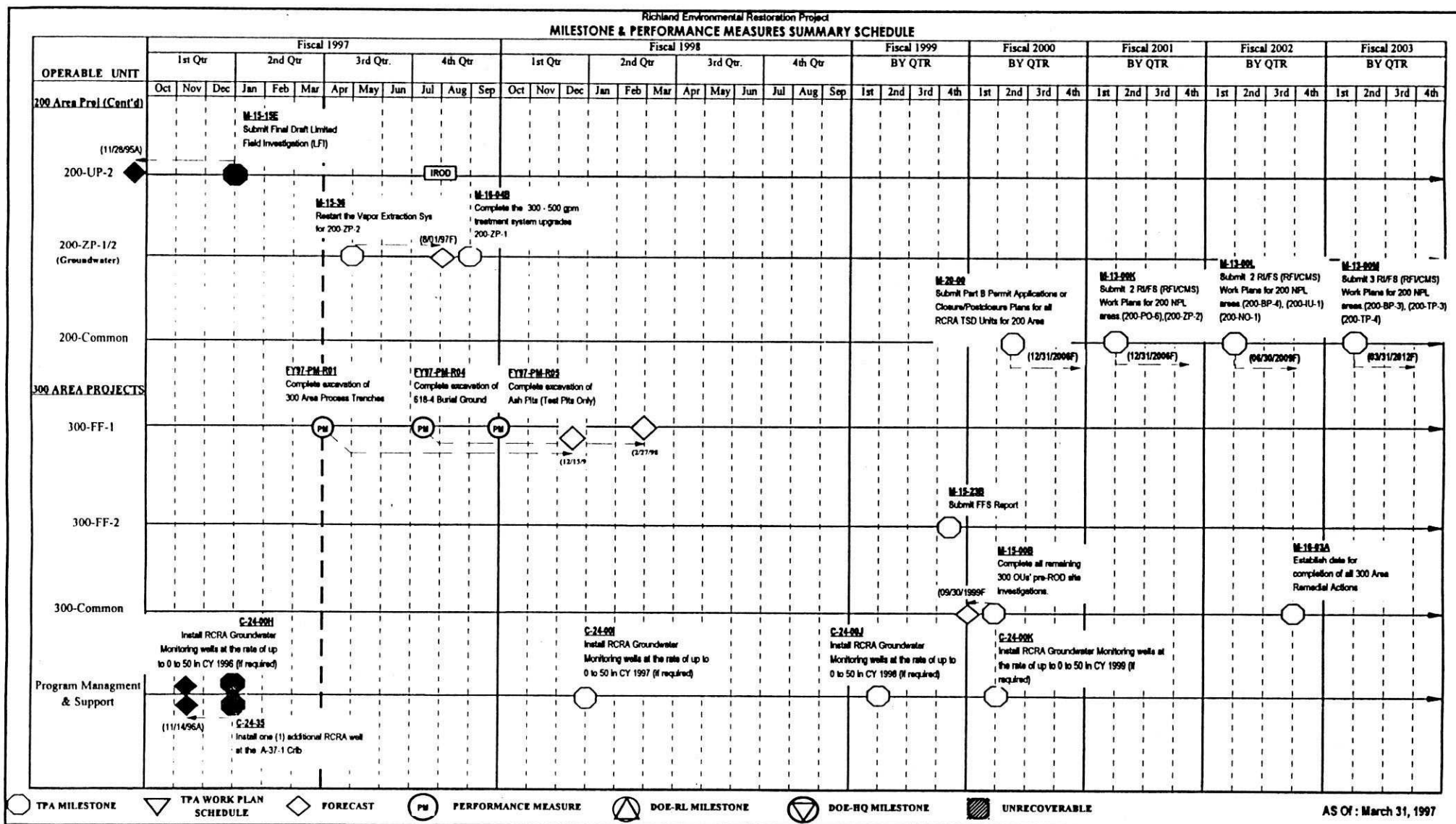
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE






AS Of : March 31, 1997

Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE





	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
N BASIN	 9/30/97 TPA MILESTONE		 11/03/97 APPROVED BASELINE					 4/1/98 PROPOSED TPA INCLUDES SCHEDULE RISK FACTORS
	<p align="center"><u>JUSTIFICATION FOR 9/30/97 TO 4/1/98</u></p> <ul style="list-style-type: none"> - NECESSITY FOR A NEW WATER TREATMENT TECHNOLOGY DUE TO WORK OPERATIONS - ADDITIONAL HIGH EXPOSURE RATE HARDWARE (ie. FILTERS, QUANTITIES) - ADDITIONAL LOW DOSE (ie. CUBICLE CANISTER GUIDES) - DISCOVERY OF FUEL FRAGMENTS - ADDITIONAL DOSE REMOVAL REQUIREMENTS (AGGRESSIVE DECONTAMINATION) - RISK FACTORS <ul style="list-style-type: none"> • WORK IN RESPIRATORS • DOSE EXTENSIONS • MAINTENANCE OF WATER CLARITY AND RECOVERY TIME DURING OPERATIONS 							
	ENVIRONMENTAL RESTORATION CONTRACT N BASIN PROJECT						DATA DATE: 23 MAY 97 _____ _____ _____	

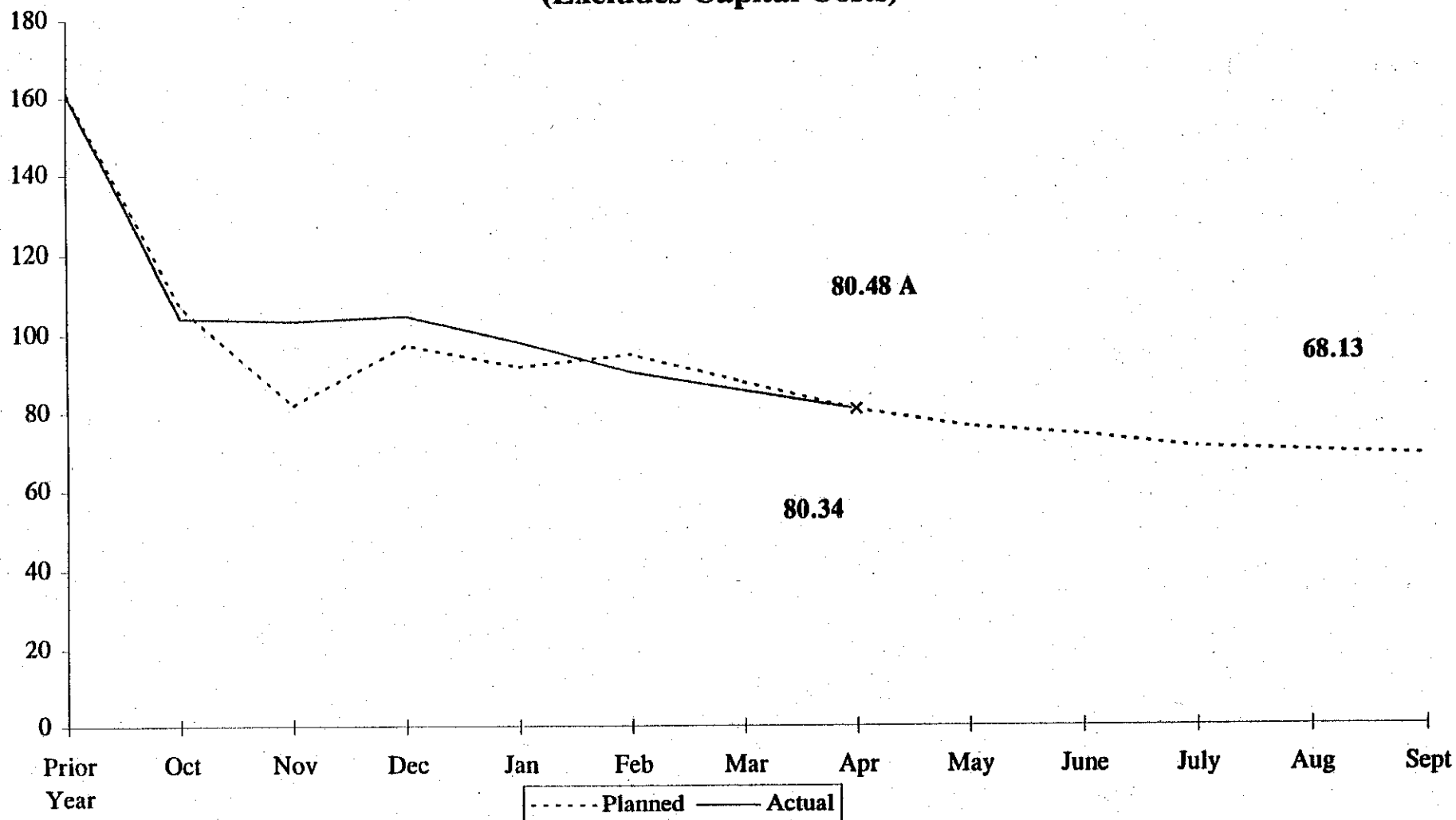
ATTACHMENT 2

REMEDIAL ACTION & WASTE DISPOSAL PROJECT

\$ per Tons

Project-To-Date Remediation, Waste Disposal & Transportation

Average Cost per Tons
(Excludes Capital Costs)

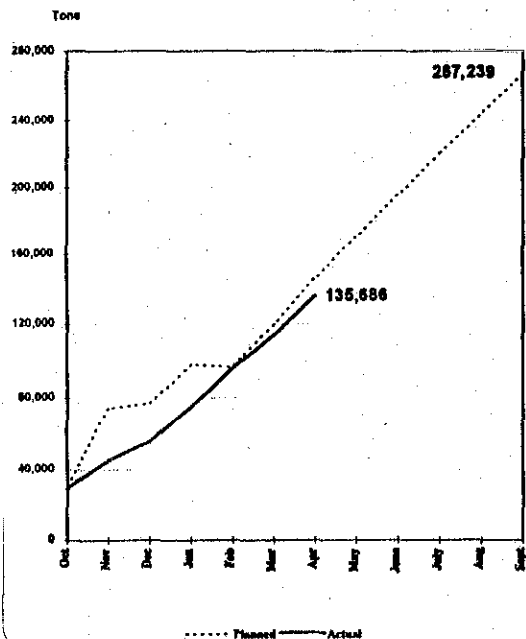


100-B/C Remediation Metrics

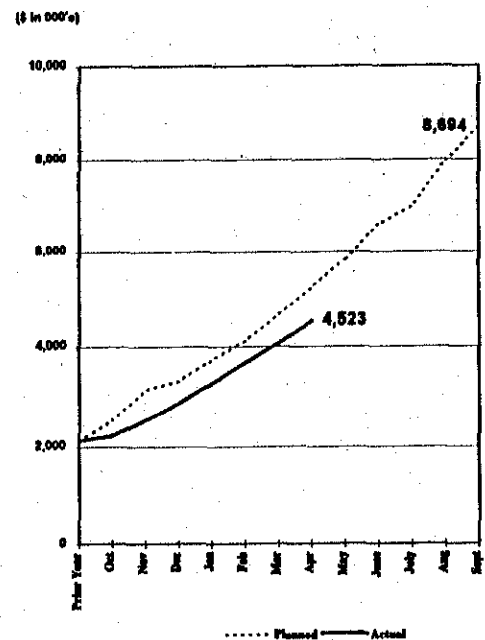
Code of Account Summary

Code of Account	FY1996 Actual	FY1997 Year-to-Date Actual	Recovery Plan	Project-to-Date Actual	Recovery Plan
Quantities					
Tons	35,778	135,686	145,895	171,465	181,769
Cost (\$000's)					
Mobilization & Preparatory Work	\$ 564.9	\$ 1.5	\$ -	\$ 566.4	\$ 564.9
Monitoring, Sampling & Analysis	194.1	384.7	712.5	578.8	806.8
Excavation - Solids Collection and Containment	614.4	1,247.5	1,471.5	1,861.9	2,085.9
Site Restoration - Backfill & Revegetation	-	11.8	83.7	11.8	83.7
Direct Project Support	763.6	740.5	825.1	1,504.1	1,588.7
Total Cost	\$ 2,137.0	\$ 2,386.0	\$ 3,092.8	\$ 4,623.0	\$ 5,229.8
Unit Cost					
Mobilization & Preparatory Work	\$ 15.79	0.01	\$ -	\$ 3.30	\$ 3.11
Monitoring, Sampling & Analysis	5.43	2.84	4.88	3.38	4.99
Excavation - Solids Collection and Containment	17.17	9.19	10.09	10.66	11.48
Site Restoration - Backfill & Revegetation	-	0.09	0.57	0.07	0.46
Direct Project Support	21.34	5.46	5.66	8.77	8.74
Total Unit Cost / Ton	\$ 59.75	\$ 17.66	\$ 21.20	\$ 26.38	\$ 28.77

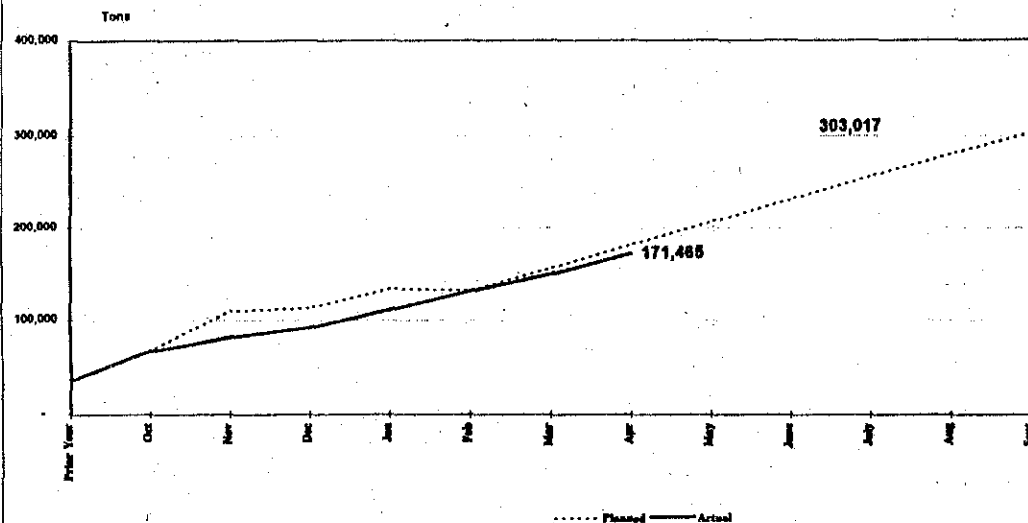
FY-to-Date Excavation - Tons



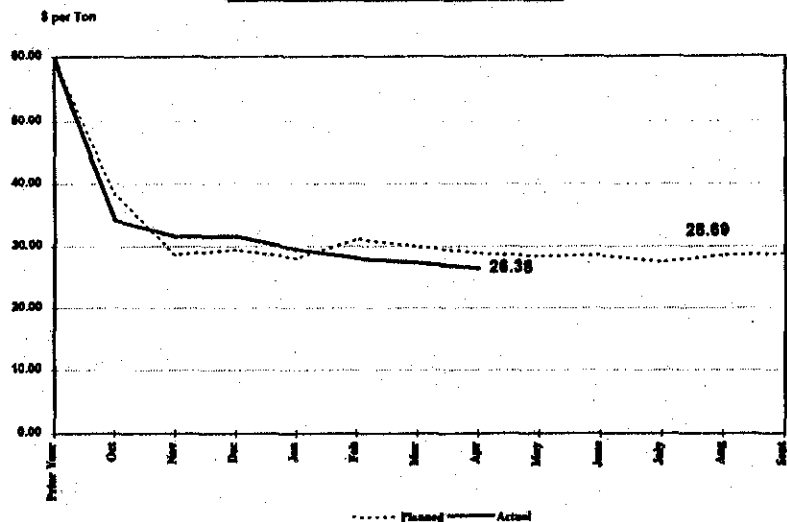
Project-to-Date Remediation Costs



Project-to-Date Excavation - Tons



Project-to-Date Remediation Unit Cost per Ton

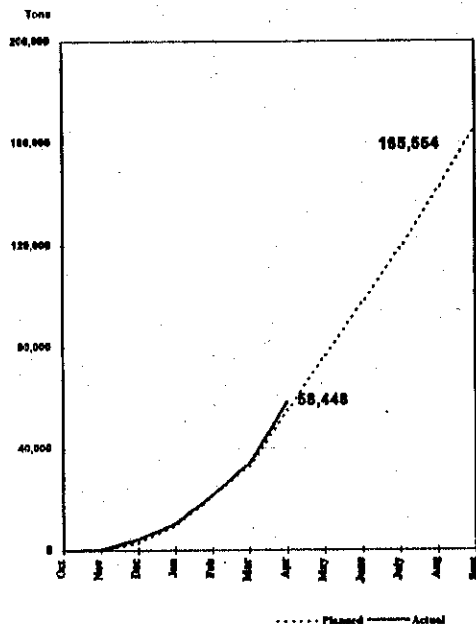


REMEDIAL ACTION AND WASTE DISPOSAL PROJECT 100-DR Remediation Metrics

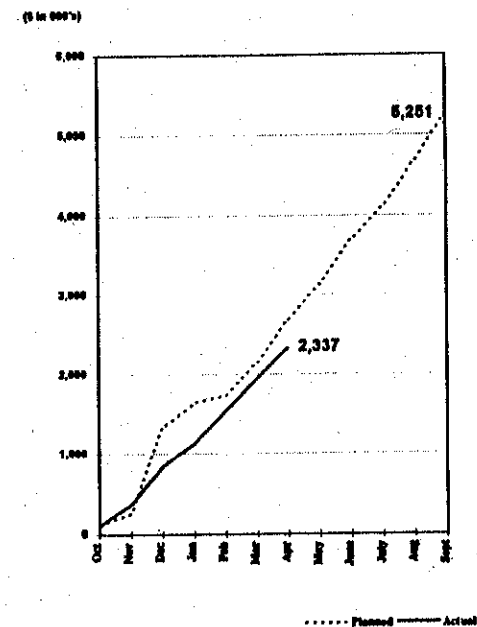
Code of Account Summary

Code of Account	FY1996 Actual	FY1997 Year-to-Date		Project-to-Date	
		Actual	Recovery Plan	Actual	Recovery Plan
Quantities					
Tons		58,448	54,812	58,448	54,812
Cost (\$000's)					
Mobilization & Preparatory Work	\$ -	\$ 688.7	\$ 763.2	\$ 688.7	\$ 763.2
Monitoring, Sampling & Analysis	-	617.7	523.2	617.7	523.2
Excavation - Solids Collection and Containment	-	440.8	696.8	440.8	696.8
Site Restoration - Backfill & Revegetation	-	-	-	-	-
Close-out Report	-	-	49.5	-	49.5
Direct Project Support	-	410.1	655.1	410.1	655.1
Total Cost	\$ -	\$ 2,337.3	\$ 2,687.8	\$ 2,337.3	\$ 2,687.8
Unit Cost					
Mobilization & Preparatory Work	\$ -	\$ 14.86	\$ 13.92	\$ 14.86	\$ 13.92
Monitoring, Sampling & Analysis	-	10.57	9.55	10.57	9.55
Excavation - Solids Collection and Containment	-	7.54	12.71	7.54	12.71
Site Restoration - Backfill & Revegetation	-	-	-	-	-
Close-out Report	-	-	0.90	-	0.90
Direct Project Support	-	7.02	11.95	7.02	11.95
Total Unit Cost / Ton	\$ -	\$ 39.99	\$ 49.04	\$ 39.99	\$ 49.04

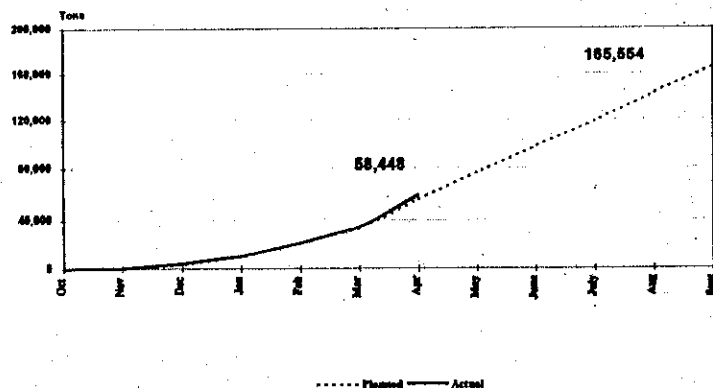
FY-to Date Excavation - Tons



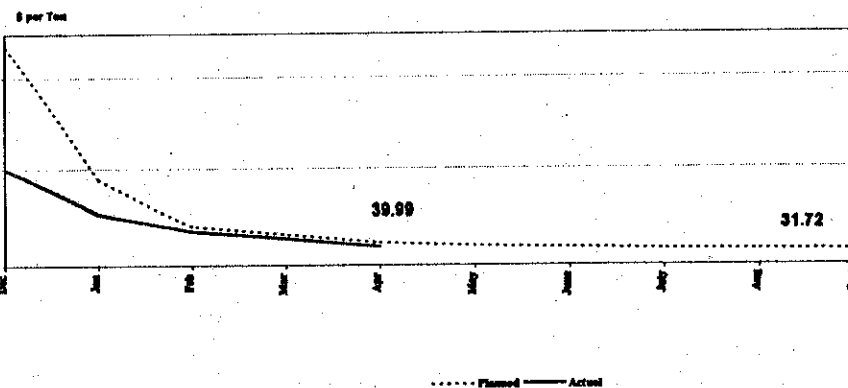
Project-to-Date Remediation Costs



Project-to-Date Excavation - Tons



Project-to-Date Remediation Unit Cost per Ton

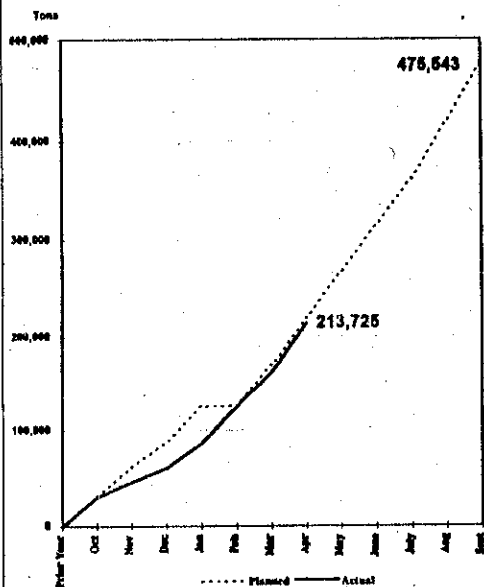


REMEDIAL ACTION AND WASTE DISPOSAL PROJECT ERDF Metrics

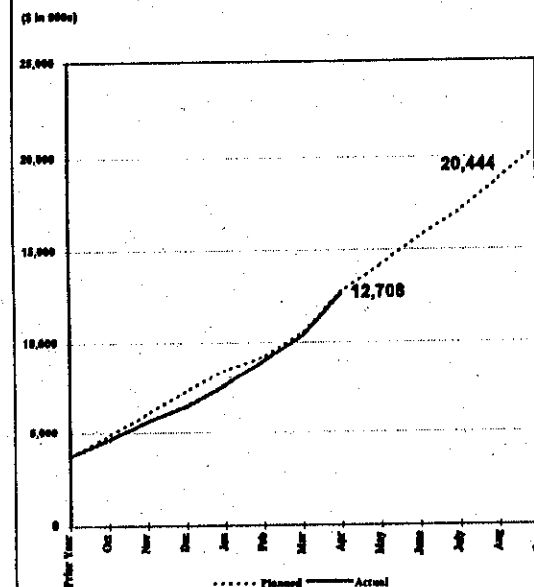
Code of Account Summary

Code of Account	FY1996 Actual	FY1997 Year-to-Date		Project-to-Date	
		Actual	Recovery Plan	Actual	Recovery Plan
Quantities					
Tons	37,237	213,725	219,073	250,962	258,310
Costs (\$000's)					
Mobilization and Preparatory	\$ 767.5	\$ -	\$ -	\$ 767.5	\$ 767.5
Waste Disposal	1,177.6	4,022.8	4,035.5	5,200.4	5,213.1
Waste Transportation (Excludes Road Upgrades)	1,269.0	4,273.3	4,245.2	5,542.3	5,514.2
Direct Project Support	544.9	652.9	737.8	1,197.8	1,282.7
Total Cost	\$ 3,769.0	\$ 8,949.0	\$ 9,018.5	\$12,708.0	\$12,777.5
Unit Cost					
Mobilization and Preparatory	\$ 20.61	\$ -	\$ -	\$ 3.06	\$ 2.99
Waste Disposal	31.62	18.82	18.42	20.72	20.34
Waste Transportation (Excludes Road Upgrades)	34.08	19.99	19.38	22.08	21.51
Direct Project Support	14.63	3.05	3.37	4.77	5.00
Total Cost / Ton	\$ 100.96	\$ 41.87	\$ 41.17	\$ 50.64	\$ 49.86

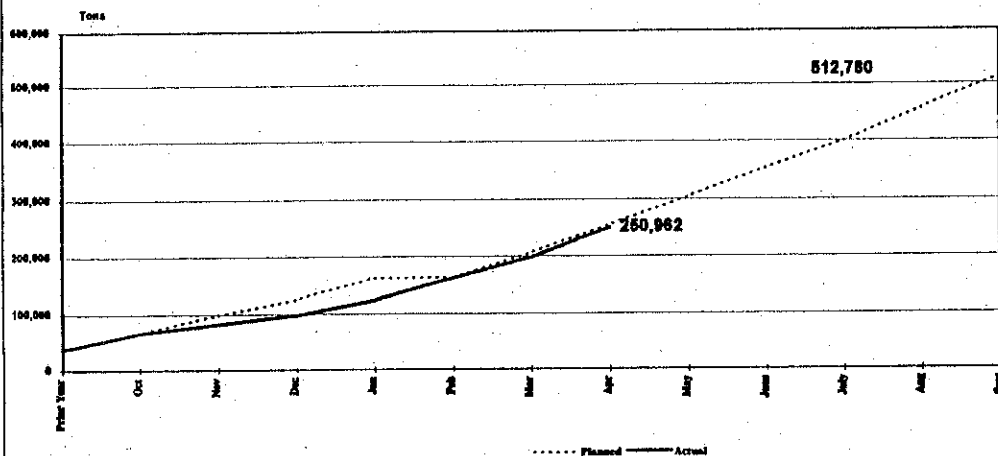
FY to Date - Tons



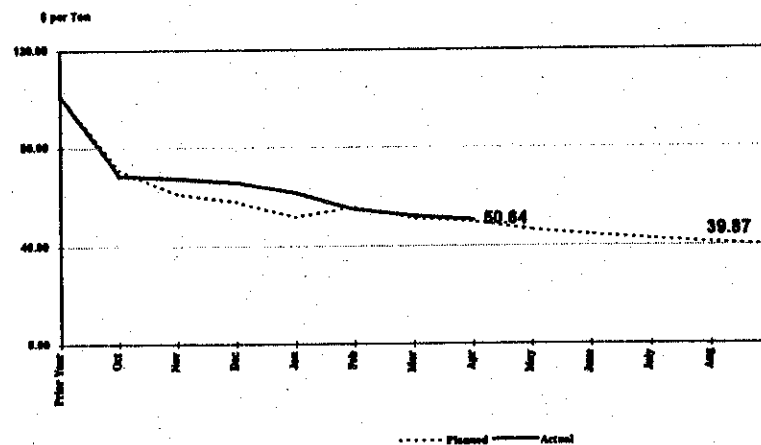
Project to Date Waste Disposal & Transportation Costs



Project to Date Waste Disposal - Tons



Project to Date Waste Disposal & Transportation Cost per Ton



Well Abandonment (Milestone M-24-00)

TPA Milestone Review Meeting
EPA Conference Room
May 27, 1997

Abandonment Strategy

- Priority placed on elimination of risk to environment/public health
- Comprehensive-includes groundwater and vadose wells
- Time-phased to integrate with cleanup schedule
- Managed as a project

Priorities for Abandonment

- Priority 1-Imminent hazard wells
- Priority 2-High risk wells
- Priority 3- RCRA Permit wells
- Priority 4-Source operable unit (OU) wells
- Priority 5-Wells outside of source OUs

FY97 Abandonment Activities

- Budget change to provide for decommissioning/abandonment scope-approved 2/25/97
- 11 approved* wells and 299-W15-5
*(WHC-SD-EN-AP-161, REV 0, APP G)
- Orphan wells as budget allows

Decommissioning Summary

(through 5/27/97)

- 12 wells decommissioned (7 “approved”, 5 orphan)
- 1 well reclassified as decommissioned
- Decommissioning of 299-W15-5 initiated

Proposed Additional FY97 Scope

- Expedited well decommissioning process for orphan wells - WPPSS test area
- RCRA River Inspection well capping/labeling

1. Significant Activities Last Three Months

On March 27, 1997, a presentation of possible wells for the M-24-00 milestone was made at the Quarterly TPA Milestone Review Meeting. The wells considered were to be installed as a joint effort between TWRS and RCRA. Since that time, a decision was reached to complete no new wells for Milestone M-24-00 in calendar year 1997. Wells may be identified during the calendar year but budget-related Non-TPA issues (see item 4) will delay initiation of well drilling until after October 1, 1997.

2. Budget Status (within budget or explain variance)

Currently the capital expense line item has approximately \$2 million remaining. The commitment date for this funding is calendar year 2000. At this time, there are no readily identified expense dollars to support activities associated with well installation (e.g. characterization).

3. Issues

TWRS has advised ER that expense dollars will not be made available in sufficient time to collect characterization data for this calendar year.

4. Non-TPA Regulatory Issues with Potential Impact to TPA Milestone

Fiscal year budget carryover during transition from EM-30 to EM-40 may require any drilling be initiated after October 1, 1997 (including procurement). Completion of drilling would likely be delayed until after 12/31/97.

ER has abandoned 12 wells during April and May. Abandonment of high risk well 299-W15-5 has been initiated and is planned to be complete by August. Additional wells have been proposed for decommissioning during the remainder of the calendar year (subject to funding availability).

5. Significant Activities Planned Next Three Months

During the next three months specific plans for the CY98 M-24-00 drilling will be developed.

Lead Agency Project Manager: Shan Teja Date: 5/20/97

PUREX Facility M-⁸90

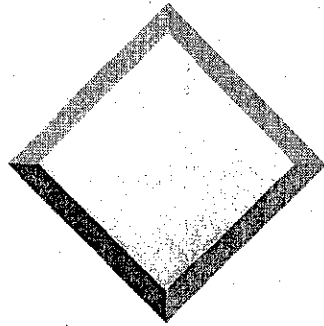
Milestones Activities Status

May 27, 1997

All PUREX Transition End Points Completed 5/9/97

PUREX in S&M status

Final turnover to BHI planned for 10/97



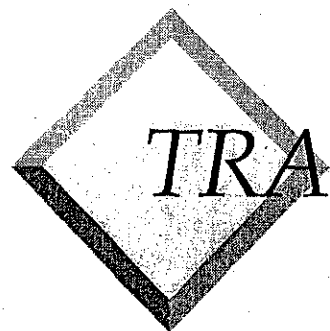
IAMIT MILESTONE STATUS

M-82-00

RL Presenter: D. T. Evans

Contractor Milestone Manager: R. E. Heineman

RL Division Director: J. E. Mecca



TRANSITION MILESTONES

- ❖ M-82-01 - Submit End Point Criteria for Transition of B Plant - June 1996 (Completed)
- ❖ M-82-02 - Complete Deactivation of the B Plant 211-B Area - January 1997 (Completed December 1996)
- ❖ M-82-03 - Complete Removal of Organic Solvent Waste from the B Plant Canyon - June 1997 (Complete March 1997)
- ❖ M-82-04 - Submit B Plant Surveillance and Maintenance Plan - June 1997 (On Schedule)
- ❖ M-82-05 - Complete Deactivation of the B Plant Aqueous Makeup Area - May 1998 (On Schedule)
- ❖ M-82-06 - Complete Deactivation of the B Plant Liquid Effluents Area - May 1998 (On Schedule)
- ❖ M-82-07 - Document Hazardous Substances/Dangerous Wastes Remaining within B Plant - June 1998 (On Schedule)



TRANSITION MILESTONES (Cont.)

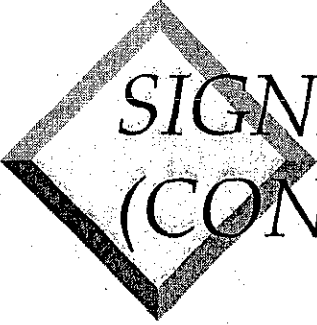
- ❖ M-82-08 - Complete Disposition of Organic Solvent Waste - September 1998 (On Schedule)
- ❖ M-82-09 - Complete Decoupling of WESF from B Plant - December 1998 (Ahead of Schedule)
- ❖ Submit a B Plant Preclosure Work Plan to Ecology - March 1999 (Ahead of Schedule)
- ❖ M-82-10 - Complete Deactivation of the B Plant Canyon - September 1999 (Ahead of Schedule)
- ❖ M-82-10-T01 - Complete Isolation/Stabilization of Retired Filters and Provide Operating Canyon Ventilation system for S&M Phase (Project W-059) - September 1999 (On Schedule)



SIGNIFICANT ACCOMPLISHMENTS

(Past 3 mo.)

- ❖ **Complete Deactivation of the B Plant 211-B Area -
January 1997**
 - Completed 5 weeks ahead of schedule (December 23, 1996)
 - Deactivation endpoints completed and accepted by BHI



SIGNIFICANT ACCOMPLISHMENTS (CONT.)

❖ Complete Removal of Organic Solvent Waste from the B Plant Canyon - June 1997

- Organic removed from canyon and placed in outdoor permitted storage March 7, 1997



SIGNIFICANT ACCOMPLISHMENTS (CONT.)

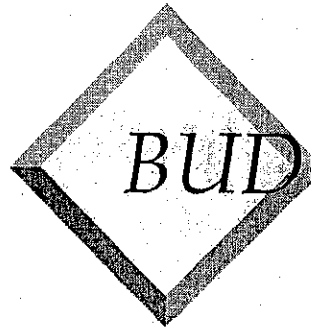
- ❖ **Submit B Plant Surveillance and Maintenance Plan
- June 1997**
 - Comments from FDH and BHI being received and incorporated



SIGNIFICANT PLANNED ACTIONS

(Next 6 mo.)

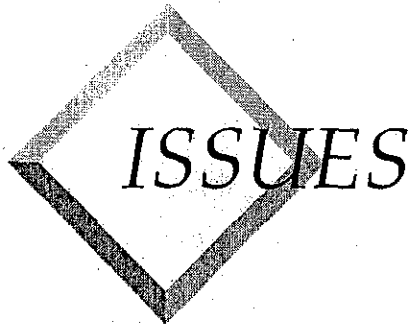
- ❖ **Submit B Plant Surveillance and Maintenance Plan**
 - Submit to RL for concurrence
 - Issue draft S&M plan to Ecology by June 1997



BUDGET/COST STATUS

❖ **Submit B Plant Surveillance and Maintenance Plan**

- Budgeted to date \$9.2K (BAC at \$10.8)
- Cost to date \$6.5K



- ❖ **General**
 - None
- ❖ **Complete Deactivation of the B Plant 211-B Area**
 - None
- ❖ **Complete Removal of Organic Solvent Waste from the B Plant Canyon**
 - None
- ❖ **Submit B Plant Surveillance and Maintenance Plan**
 - None

DOE-HQ MID-YEAR REVIEW

B PLANT/WESF STABILIZATION PROJECT

- Accelerating Hazard Reduction
- Completing Deactivation 4 Years Early
- Saving the Taxpayers \$100 Million
- “Showcase” Storage of Cs/Sr Capsules

May 21, 1997

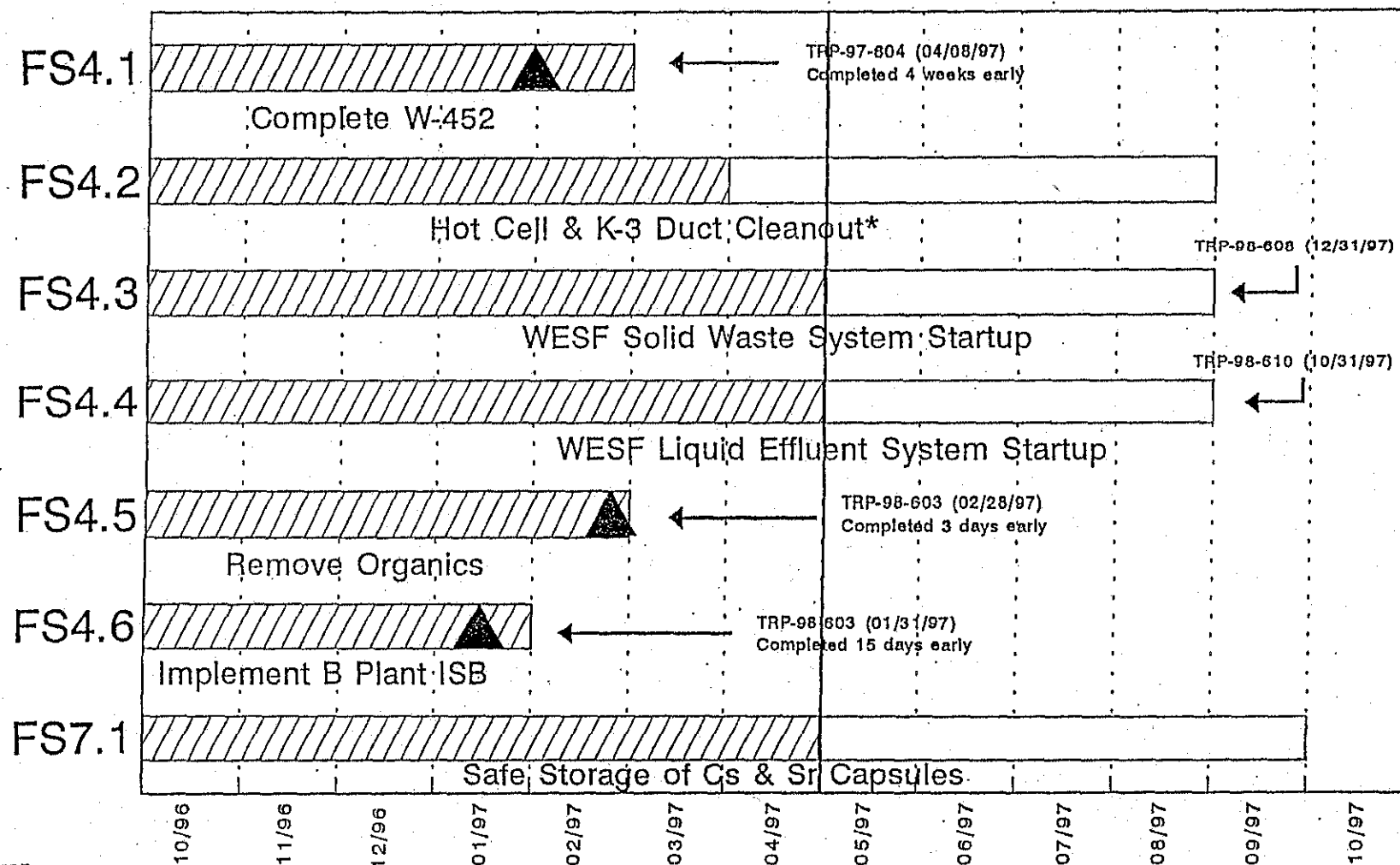
R. A. Silva, HQ Program Manager
D. T. Evans, RL Program Manager
B. F. Burton, Jr., RL Facility Representative

G. W. Reddick Jr., Project Manager
Fluor Daniel Hanford Company
R. E. Heineman, Jr., Director
B&W Hanford Company

B PLANT/WESF PROJECT

FY 1997 Performance Agreements

Status As Of May 1, 1997



B PLANT MID-PROJECT REVIEW

MAY 21, 1997

MEASURE	EXPECTATION	STATUS/COMMENTS
<p>FS4.1 Construction of Project W-452.</p> <p>Percent of Fee Pool = .5%</p>	<p>FS4.1.1 Complete construction of Project W-452 by March 1, 1997.</p> <p>MILESTONE: TRP-97-604 due April 8, 1997.</p>	<p>COMPLETED (4 weeks early)</p>
<p>FS4.2 Start-up the WESF Low-Level Liquid Waste System.</p> <p>Percent of Fee Pool = .5%</p>	<p>FS4.2.1 Complete WESF hotcell and K3 duct cleanup by August 30, 1997, in support of WESF Low-Level Liquid Waste System critical path activities.</p> <p>MILESTONE: N/A</p>	<p><u>STATUS</u>: Behind schedule 4 weeks due to late EPA approval, emergency piping replacement and K-3 filter pit flooding.</p> <p><u>COMMENTS</u>: K-3 characterization scheduled to start June 9. Very tight recovery schedule developed for Hot Cell cleanup.</p>
<p>FS4.3 Start-up the WESF Solid Waste System.</p> <p>Percent of Fee Pool = .5%</p>	<p>FS4.3.1 WESF Solid Waste System declared operational (and ready for use) by WESF Plant Operations Management by August 30, 1997.</p> <p>MILESTONE: TRP-98-608 due December 31, 1997.</p>	<p><u>STATUS</u>: On schedule</p> <p><u>COMMENTS</u>: Much of Solid Waste system to be implemented through Hot Cell cleanup activities.</p>
<p>FS4.4 Start-up the WESF Liquid Effluent System.</p> <p>Percent of Fee Pool = .5%</p>	<p>FS4.4.1 WESF Liquid Effluent Systems declared operational (and ready for use) by WESF Plant Operations Management by August 30, 1997.</p> <p>MILESTONE: TRP-98-610 due October 31, 1997.</p>	<p><u>STATUS</u>: On schedule</p> <p><u>COMMENTS</u>: Design completed.</p>
<p>FS4.5 Remove organic solvent waste from 221-B canyon.</p> <p>Percent of Fee Pool = .5%</p>	<p>FS4.5.1 Complete removal of organic solvent waste from 221-B canyon by February 28, 1997.</p> <p>MILESTONE: TRP-98-603 due February 28, 1997.</p>	<p>COMPLETED (three days early)</p>
<p>FS4.6 Implement B Plant Interim Safety Basis.</p> <p>Percent of Fee Pool = .5%</p>	<p>FS4.6.1 Complete implementation of B Plant Interim Safety Basis by January 31, 1997.</p> <p>MILESTONE: TRP-96-603 due January 31, 1997.</p>	<p>COMPLETED (10 days early)</p>
<p>FS7.1 Safe storage of Cs and Sr capsules.</p>	<p>FS7.1.1 Operate WESF facility without storage or transportation violations.</p> <p>MILESTONE: N/A</p>	<p><u>STATUS</u>: On schedule</p> <p><u>COMMENTS</u>: There have been no Safety Limit, Environmental, or DOT violations at WESF.</p>

MIDYEAR REVIEW

Waste Encapsulation and Storage Facility

MAY 21, 1997

MAJOR ACCOMPLISHMENTS

- Project W-252, WESF Closed Loop cooling, was completed. An excellent effort was expended to quickly replace the in-plant piping system upon the discovery of extensive corrosion and still complete the project on time.
- Project W-452, WESF Control Area, was completed four weeks early.
- A new Basis for Interim Operations (BIO) was developed and submitted.
- A comprehensive appraisal was completed by the Facility Evaluation Board with the facility receiving a "Meets Requirements" assessment.
- Significant improvements were made for providing pool cell cooling water in an emergency.
- Initiated Hot Cell solid waste removal.
- Preparations to overpack and receive the remaining 300 Area cesium capsule inventory at WESF were begun.

MIDYEAR REVIEW

WESF

MAY 21, 1997

COST AND SCHEDULE PERFORMANCE (\$ IN THOUSANDS)									
PROGRAM ELEMENT WBS & ADS	FISCAL YEAR TO DATE								
	BUDGETED COST		ACTUAL COST	VARIANCE					
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST	BAC	EAC	FYSF	Expected* FUNDS
6627-0 WESF COMPLEX	7827	6449	7576	(1378)	(1126)	13364	13512	13512	13579

VARIANCE ANALYSES

SCHEDULE VARIANCE \$ <1378K >

- \$877K Emergency Ion Exchange system delay while being replanned.
- \$377K K3-East contamination emission that halted the K3 duct characterization and the Hot Cell Cleanout.

IMPACTS: Scheduled field activities have been impacted for four months.

CORRECTIVE ACTIONS: Recovery schedules have been drafted and are being completed. A Change Request is in process to replan the Emergency Ion Exchange System.

VARIANCE ANALYSES

COST VARIANCE \$ <1126K >

- \$783K Closed Loop Cooling system project including \$450K for replacement of the corroded facility piping.
- \$225K Investigation of the K3-East emissions and restart of the system.

IMPACTS: Diversion of staff impacts other planned workscope this fiscal year.

CORRECTIVE ACTIONS: Remaining workscope this fiscal year is being evaluated as to ability to perform with attainable staff.

PLANNED ACTIVITIES

- Maintain WESF in a safe and compliant condition.
(PA No. FS 7.1.1)
- Complete Hot Cell clean-out and deactivation of fire suppression.
(PA No. FS 4.2.1)
- Complete the K3 duct characterization and decontaminate if necessary.
(PA No. FS 4.2.1)
- Complete the Emergency Ion Exchange system design and initiate construction.
- Receive all cesium capsules from the 300 Area at WESF.

MIDYEAR REVIEW

WESF

MAY 21, 1997

ISSUES

- Continuing high level of external scrutiny.
- Upgrade to showcase status is being hampered by emergent issues.

B Plant Deactivation Project

MID-PROJECT REVIEW

MAY 21, 1997

- Breakthrough Objectives and Commitments
- Major Accomplishments - First 18 Months
- Major Planned Actions - Next 18 Months
- Financial Summary
- Strategic Project Issues

Breakthrough Objectives (9/95)

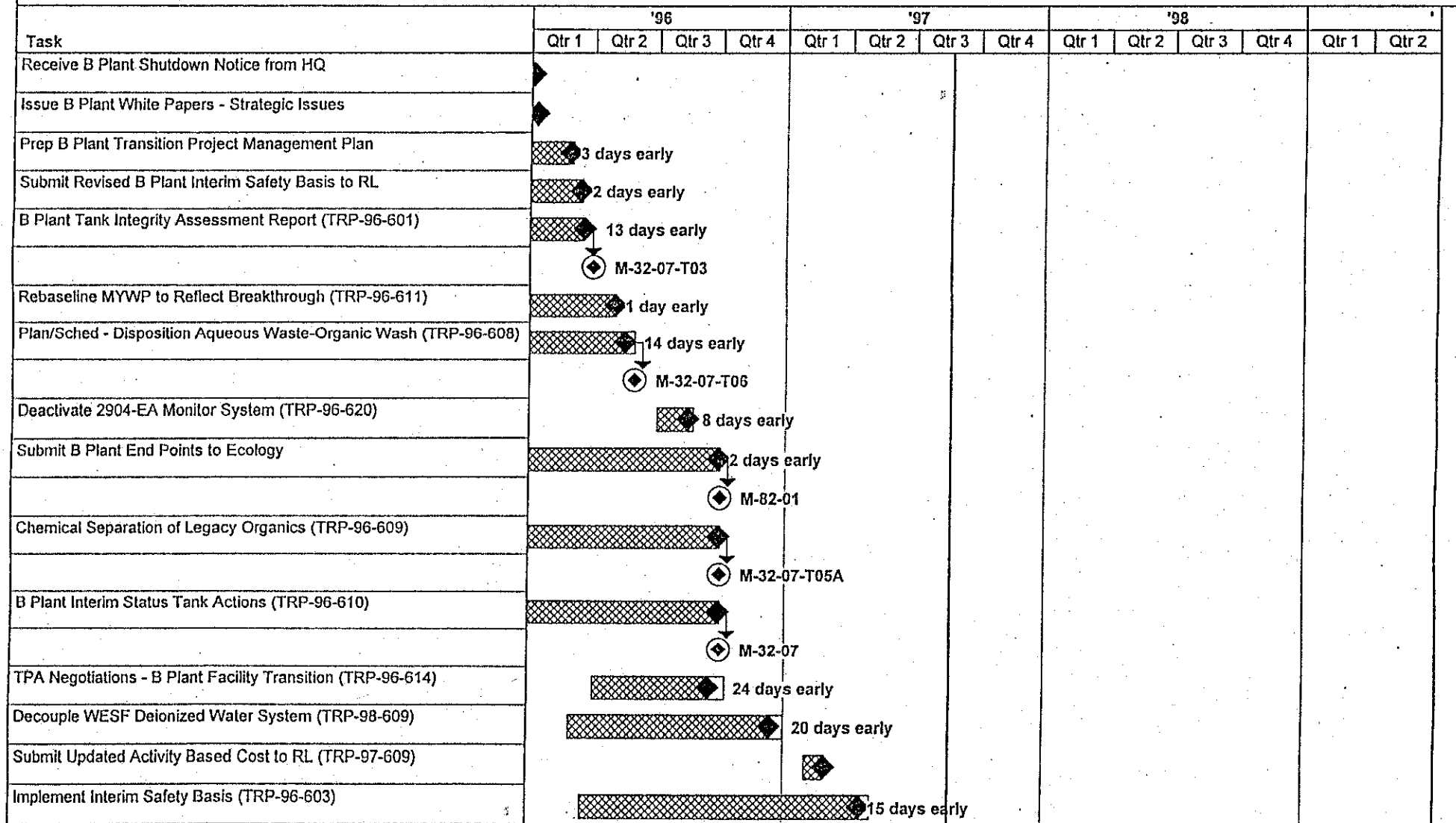
- Accelerate the project by 4 years: "Close the gate in FY 1998"
- Reduce S&M budget by 90%
- Accomplish with no large influx of money
- Committed senior management at HQ, RL, and Contractor level

Breakthrough Commitments (9/95)

- White papers on B Plant strategic issues by October 10, 1995 - Completed
- HQ to issue B Plant shutdown notice by October 1, 1995 - Completed
- Develop strategic Project Management Plan by December 1, 1995 - Completed
- Rebaseline MYWP, applying PUREX lessons learned to accelerate project four years, by February 1, 1996 - Completed
- Initiate TPA negotiations within three months of shutdown notice and conclude negotiations in six months - Completed

B PLANT MID PROJECT REVIEW

Schedule of FY96-FY97 Major Accomplishments



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Page 1 of 2

Duration

Progress



Actual Finish

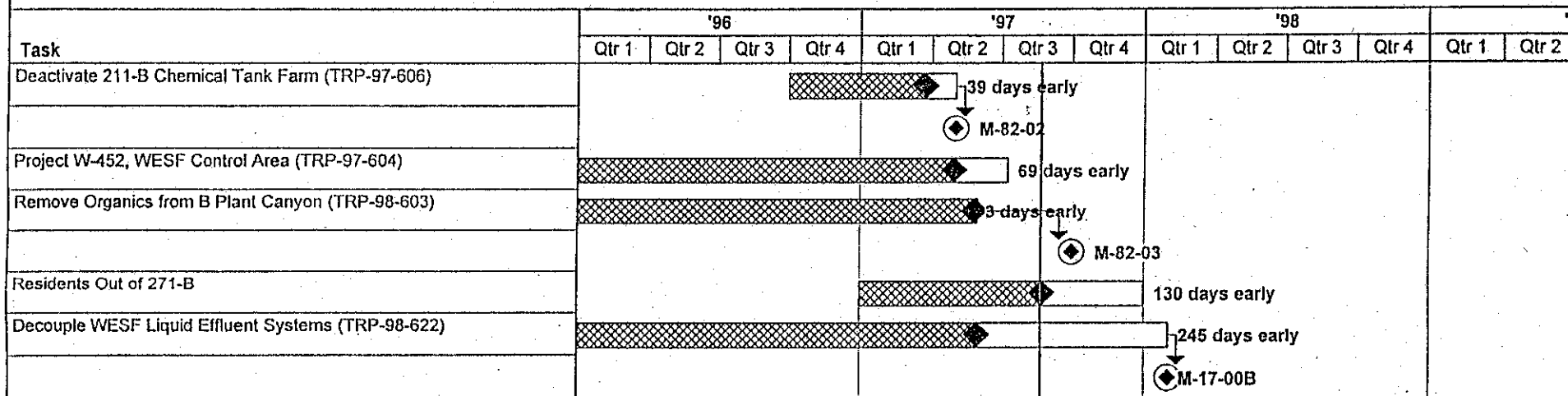


TPA Milestones



B PLANT MID PROJECT REVIEW

Schedule of FY96-FY97 Major Accomplishments



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Page 2 of 2

Duration

Progress



Actual Finish



TPA Milestones

B PLANT MID-PROJECT REVIEW

MAY 21, 1997

Other Accomplishments - First 18 Months

- Project Definition
 - TPA negotiations and public involvement success
 - No significant stakeholder/worker/public issues
 - Project W-059 Value Engineering
 - WESF Decoupling rebaseline
 - Completed deactivation work Definition Packages 6 months early
 - Interim Safety Basis developed and implemented
 - S/RIDs and Integrated Safety Management approach developed
- Reengineering Implementation on June 24, 1996
 - Restructured deactivation planning and work management processes
 - Multi-disciplined work teams organized around end points
 - Average cycle time for work reduced from 80 days to 8 days
 - Enhanced Work Planning fully implemented
- Tanks and Vessel Management
 - All inactive chemical tanks/vessels emptied by April 2, 1996
 - All inactive canyon tanks/vessels verified
 - 78 of 86 inactive canyon tanks/vessels empty and isolated
 - Legacy organics decontaminated and removed from canyon

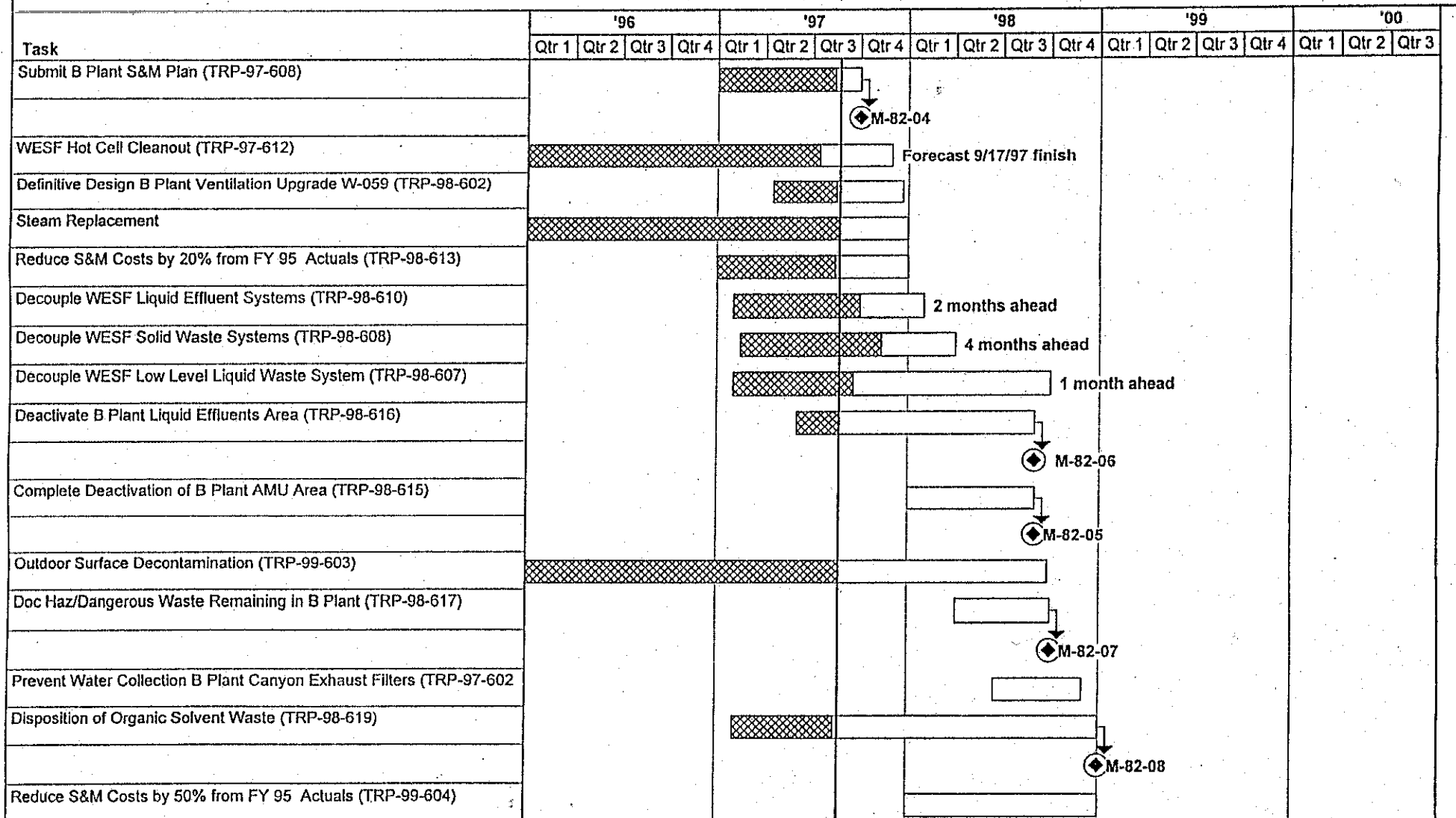
B PLANT MID-PROJECT REVIEW

MAY 21, 1997

- Deactivation Progress
 - Completed deactivation of 2904-EA, 276-B, 221-BF, 211-BB and 211-B Chemical Tank Farm
 - Residents out of 271-B facility 4 months early
 - Liquid effluents reduced/diverted to allow accelerated deactivation
 - 184 deactivation end points completed and closed as of May 19, 1997
 - Organic cells fire detection and suppression systems and wind tunnel spray system deactivated
- Management of External Scrutiny & Emergent Issues
 - DNFSB scrutiny of HEPA filters, safety basis, other issues
 - Successful FEB review
 - D Filter characterization
 - E Filter brought on line
 - Seamless transition planning for filters and stack disposition

B PLANT MID PROJECT REVIEW

Schedule of FY96-FY97 Major Planned Actions



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Duration

Progress



Actual Finish

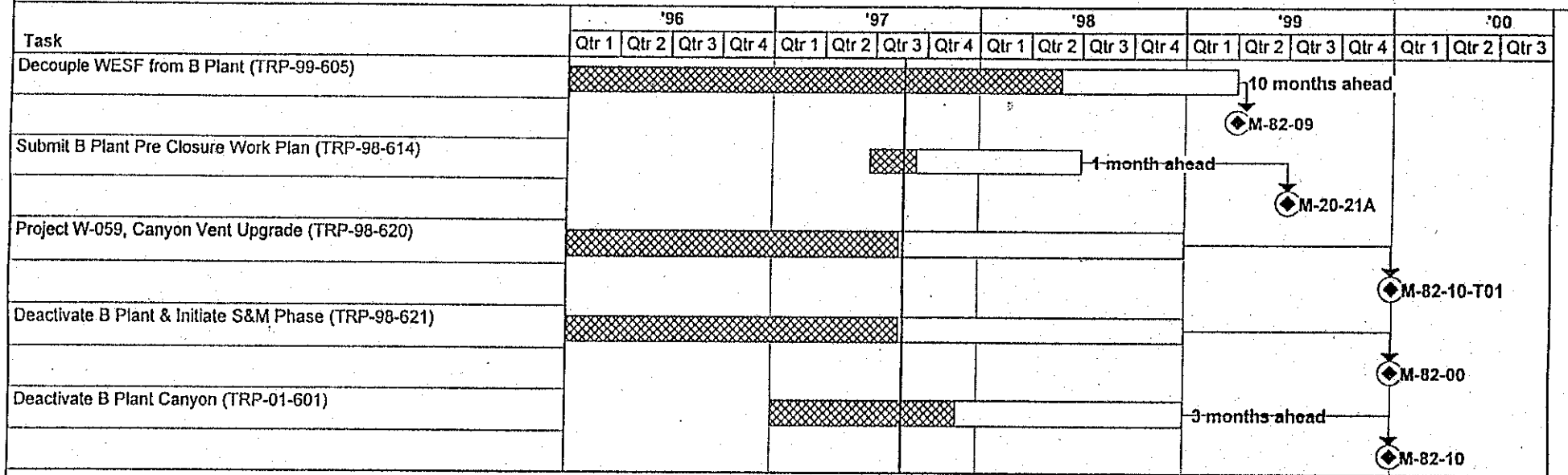


TPA Milestones



B PLANT MID PROJECT REVIEW

Schedule of FY96-FY97 Major Planned Actions



B PLANT MID-PROJECT REVIEW

MAY 21, 1997

FUNDING PROFILE

B PLANT STABILIZATION PROJECT

	FY 1996	FY 1997	FY 1998
EXPENSE	20,202	22,080	20,161
CAPITAL	0	1,500	2,000

COST AND SCHEDULE PERFORMANCE (\$ IN THOUSANDS)									
PROGRAM ELEMENT WBS & ADS	FISCAL YEAR TO DATE								
	BUDGETED COST		ACTUAL COST	VARIANCE					
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST	BAC	EAC	FYSF	Expected* FUNDS
6626-0 B PLANT COMPLEX	12330	11902	13502	(428)	(1599)	21489	21903	21903	21581
6626-1 W-059 CANYON VENTILATION UPGRADE	234	217	285	(17)	(68)	499	499	499	499
6626-1 W-059 Capital	293	293	392	0	(99)	1500	1680	1680	1500
Grand Total	12857	12412	14179	(445)	(1766)	23488	24082	24082	23580

B PLANT MID-PROJECT REVIEW

MAY 21, 1997

Variance Analyses

- Schedule Variance \$ <445K>
 - \$338K WESF Decoupling
 - \$53K 291-B Rain Cap

IMPACTS: Decoupling will be completed on schedule. 291-B Rain Cap is on hold until completion of W-059 tie-in.

CORRECTIVE ACTIONS: Decoupling is being replanned to incorporate refined methods.

B PLANT MID-PROJECT REVIEW

MAY 21, 1997

- Cost Variance \$ < 1668K >
 - \$373K Organics: additional decontamination phase & EPA-protocol sampling
 - \$210K D Filter characterization: added scope to enhance safety
 - \$200K FEB assessment support: unbudgeted
 - \$185K Site assessments: costs greater than anticipated
 - \$375K Accelerated deactivation: residents out, liquid effluents, deactivation of 221-B, 271-B and 291-B
 - \$300K Surveillance labor: shift reductions delayed from January to April

IMPACTS: Remaining work scope may be impacted if corrective actions are not fully successful.

CORRECTIVE ACTIONS: All costs are being monitored carefully. Staff attrition is being managed aggressively. Additional funding sources for B Plant are being pursued within BWHC.

Strategic Project Issues

- WESF decoupling - no longer critical path due to innovative engineering and effective application of Performance Agreements.
- Project W-059 remains critical path.
- WESF scrutiny continues - manageable to date.

- Cost of doing business - PHMC transition period.
- Potential funding issues
 - Contaminated railcars
 - Waste sites
 - Organic disposition
 - Project W-059
 - Rain cap at 291-B.
- Staff disposition - redeployment vision needed.

DOE-HQ's Challenge:

"At least one breakthrough facility at each site"

Hanford's B Plant Response:

"Bet on the come and drive to the finish"

Plutonium Finishing Plant

TPA Overview

PFP Stabilization, Milestone M-83-00

D. W. Templeton

May 27, 1997

M-83 Negotiation Status

- M-83 to be replaced by M-83A
- Technical discussions were initiated May 1, 1997
- Notice of Intent to be submitted by July 15, 1997
- Formal negotiations to begin no later than September 1, 1997 and end by March 31, 1998

PFP Accomplishments

- Met Interim Milestone M-20-48A (Submittal of 241-Z Closure Plan)
- Completed Revision #5, Site Integrated Stabilization Management Plan, April 1997
- Made significant progress toward the installation of the direct denitration calciner (i.e., vertical calciner) for solution stabilization activities
- Completed PFP management formal readiness assessment process to lift the fissile materials movement restriction for Phase 1 operation

PFP Stabilization TPA Overview

- Issues/Actions

- » Defining the scope of the Notice of Intent due July 15, 1997
- » Recovery from self-imposed fissile material movement restriction
- » Recovery from Plutonium Reclamation Facility event of May 14, 1997

324 Facility M-89 Milestones

Activities Status

Complete Closure of Non-Permitted Mixed
Waste Storage Units in the 324 Building
REC and HLW

May 27, 1997

324 Facility M-89 Milestones Activities

TPA Milestone Description

- Milestones Completed
 - M-89-01: Complete removal of 324 Building HLV Tank Mixed Waste (MW) - Completed 9/96
 - M-89-03: Achieve Compliance with Interim Status Facility Standards Non-Permitted 324 Building MW Units - Completed 3/95
 - M-89-04: Submit to Ecology a Report Identifying Management Options for Achieving Clean Closure - Completed 6/95
 - M-20-55 Submit Closure Plan for Non-Permitted MW Units Located in the 324 Building. - Initial Complete 12/95 (Revised Closure Plan in progress for May 1997 submittal)

324 Facility M-89 Milestones Activities

- Remaining Milestones
 - M-89-02 (5/99): Complete removal of 324 Building REC B-Cell MW and Equipment. Items yet to be complete include:
 - removal of the 1A Rack, 2A Rack, and 1B Rack (and ancillary piping and equipment), and
 - containerization and removal of the dispersible material from the B-Cell floor.
 - M-89-05 (6/98): Complete 324 Facility Special Case Waste (SCW) Assessment in Support of 324 Closure.

324 Facility M-89 Milestones Activities

RL Program Managers Assessment

- **ES&H** - Facility Management continues to take active steps to upgrade conduct of operations, radiological control and work management. - **Good**
- **Technical** - Pathforward meetings discussing progress and status of technical issues are held weekly. Improvement is noted in identification and resolution of key issues. The 324 Facility has loss key staff which has impacted productivity. Transfers from PUREX are coming up to speed. - **Good**
- **Schedule** - B-Cell activities are behind schedule due to significant crane maintenance and repairs. An integrated "Crane/Airlock" schedule has been prepared to manage crane and airlock activities. - **Satisfactory**
- **Cost** - FY97 funding is in place and is no longer a FY97 issue. A positive budget variance (end of April) is essentially equal to the negative schedule variance. - **Good**

324 Facility M-89 Milestones Activities

Significant Accomplishments (Last 3 Months)

- Installed new 3 1/2 ton crane
- Demonstrated laser cutting (Mockup & 6 ton crane)
- Removed/size reduced 6 ton crane
- Acceptance testing 10 ton crane in progress
- Obtained people to support closure/deactivation

324 Facility M-89 Milestones Activities

Significant Planned Actions (Next 6 Months)

- Integrate/execute Airlock activities to support B-Cell and A-Cell (FRG Log Removal)
- Install 10 ton crane
- Complete pipe trench piping disconnects and initiate 1A Rack size reduction.
- Collect and containerize dispersibles from underneath 1A Rack
- Issue position paper on B-cell dispersible interim storage location (pending treatment/disposal)

324 Facility M-89 Milestones Activities

Budget/Cost Status (FYTD)

	<u>Budget</u>	<u>Actuals</u>	<u>Schedule Variance</u>
B-Cell Project	\$2,490	\$2,167	\$(480)
324 Building Deactivation Project	8,648	8,324	(508)

324 Facility M-89 Milestones Activities

Overall 324 Facility and Programmatic Issues

- Many key support staff remained with PNNL after transition of the facility. Status:
 - *Transferring qualified PUREX staff, updating facility specific training program.*
- The Hanford IPL identifies \$13M for B-Cell in FY98
- Shortfall identified at facility transfer has been rectified

324 Facility M-89 Milestones Activities

Overall 324 Facility and Programmatic Issues

- An approved long-term storage/disposal locations for Special Case Waste (B-Cell dispersibles, FRG logs, Cs capsules/powder) has not been identified.

Status:

- *Interim storage locations identified for FRG and Cs.*
- Hot-Cell cranes require significant maintenance, repair, and replacement due to deterioration in high radiation fields. Decontamination is high-dose and complex. Status:
 - *Repair/replacement of cranes in process..*
 - *Integrated "Crane/Airlock" schedule has been prepared to manage daily activities.*